

2015 Annual Monitoring Report
RCRA Corrective Action
IND 980 700 801

2915 Dr. Martin Luther King Jr. Boulevard, Anderson, IN
Revitalizing Auto Communities Environmental Response Trust

Indiana Department of Environmental Management

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List of Acronyms/Short Forms

1,1-DCE	1,1-dichloroethene
mg/L	milligram per liter
AOC	area of concern
AOI	areas of interest
bgs	below ground surface
cis-1,2-DCE	cis-1,2-dichloroethene
CM	corrective measures
CMP	corrective measures plan
CRA	Conestoga-Rovers and Associates
DO	dissolved oxygen
ENVIRON	ENVIRON International Corporation
EPA	Environmental Protection Agency, US
FEMA	Federal Emergency Management Agency
FMG	Field Method Guideline
GMC	General Motors Corporation
HRC	hydrogen release compound
ID	sample identification
IDEM	Indiana Department of Environmental Management
IDNR	Indiana Department of Natural Resources
IDW	investigative derived waste
IM	Interim Measure
MNA	Monitored Natural Attenuation
MCL	Maximum Contaminant Level
MLK	Martin Luther King Jr.
MS/MSD	matrix spike/matrix spike duplicate
NA	Natural Attenuation
NAVD	North American Vertical Datum
ORP	oxidation reduction potential
POTW	publicly owned treatment works
RACER	Revitalizing Auto Communities Environmental Response
RCRA	Resource Conservation and recovery Act
RFI	RCRA Facility Investigation
RISC	Risk Integrated System of Closure
SWMU	Solid Waste Management Unit

TCE	trichloroethene
TCL	target compound list
trans-1,2-DCE	trans-1,2-dichloroethene
U.S.	United States
VOC	volatile organic compound
WWTP	wastewater treatment plant

1. Introduction

GHD, on behalf of the Revitalizing Auto Communities Environmental Response (RACER) Trust, has prepared this 2015 Annual Monitoring Report (Report) for the RACER Trust facility located at 2915 Dr. Martin Luther King Junior Boulevard in Anderson, Indiana (Site).

This Report has been prepared to summarize the results of groundwater and surface water monitoring conducted at and near the Site in 2015. This report is submitted to the Indiana Department of Environmental Management (IDEM) in support of ongoing Resource Conservation and Recovery Act (RCRA) Corrective Action at the Site. The monitoring was conducted pursuant to the Site-wide Groundwater Monitoring Plan (AECOM, October 28, 2010), subsequent recommendations made in the 2010 Annual Groundwater Monitoring Report (AECOM, January 2011), request for modifications to the Site-wide Groundwater Monitoring Plan (CRA, April 2012), conclusions presented in the 2013 Annual Groundwater Monitoring Report (CRA, February 2014), recommendations made in the 2014 Annual Groundwater Monitoring Report (CRA, February 2015), and recommendations made by IDEM in 2015.

1.1 Objectives

The Site-wide groundwater monitoring program was intended to be implemented concurrent to the final corrective measures at the Site. As such, the primary objectives of the Site-wide groundwater monitoring are to:

1. Evaluate the effectiveness of the proposed in-situ corrective measures (CM) for groundwater
2. Monitor the stability of the two volatile organic compound (VOC) plumes

As final corrective measures have not been implemented to date, this report has been prepared to present a stability analysis of the VOC plumes as updated with 2015 data. As appropriate, this Report supplements findings of the Final RCRA Facility Investigation (RFI) Report (Conestoga-Rovers and Associates, June 2014) and the previous annual groundwater monitoring reports (Earth Tech, Inc. and ENVIRON, January 31, 2007; Earth Tech, Inc., January 31, 2008; AECOM, February 27, 2009, April 26, 2010, January 31, 2011, and January 31, 2012; and CRA February 2013, January 2014 and February 2015). It is noted that the historical information in this Report is largely cited from the 2011 Annual Groundwater Monitoring Report (AECOM, 2012), prepared by others.

2. Groundwater Monitoring Overview

2.1 Site Description

The Site is located in the northwest quarter of Section 23, T19N, R7E, on the southwest side of Anderson, Madison County, Indiana. Formerly, the Site comprised approximately 3,000,000 square feet of manufacturing area situated on 234 acres. Dr. Martin Luther King Junior (MLK) Boulevard divides the Site in a north-south direction. General Motors Corporation (GMC) previously conducted automotive parts manufacturing operations in plants on both sides of MLK Boulevard. The former east manufacturing areas (Plants 6 and 9) are bounded by MLK Boulevard on the west, by a

railroad on the south, by 29th Street on the north, and by Madison Avenue on the east. A Site location map is provided on Figure 1 and a Site plan is provided on Figure 2.

The manufacturing facilities west of MLK Boulevard, referred to as the Main Plant, were bounded on the west, south and southeast by railroad tracks, and on the north by 25th Street. Facility parking areas were located west of the westernmost railroad, and north of 25th Street. Formerly developed areas of the property were largely covered with asphalt or concrete. Land use surrounding the Site varies from residential and commercial on the north and east, residential and recreational on the south, and residential and agricultural on the west. A small public-access park is located in the northwest part of the property. The Meadowbrook Golf Course is located southeast of the Site.

GMC began operations at the MLK Boulevard facility in 1929. Manufacturing plants were expanded several times, generally proceeding from the north end of the Main Plant southward and eastward. East of MLK Boulevard, Plant 9 construction commenced in 1969, and building additions were performed in 1973, 1977, 1981, 1985, 1986 and 1989. Manufacturing operations on the Site ceased in 2006. All facilities west of MLK Boulevard were demolished during the period of late 2007 to early 2009. The demolition included the removal of all concrete building slabs and many areas of pavement around the immediate Main Plant building area. Following demolition, the area was regraded and covered with varying thicknesses of crushed concrete. A soil and vegetative cover were applied during the summer of 2009. With the exception of a building in the northern section of the former Main Plant area, the former Main Plant building location is now an open field. The building in the northern section of the former Main Plant area was constructed following the sale of Tract B (North) in April 2015.

The former Plant 6 and 9 properties and a lot east of Madison Avenue were sold soon after related manufacturing operations ceased in 1997. The remaining portions of the property were held by GMC until its bankruptcy in June 2009. The RACER Trust was created in March 2011 by the United States (U.S.) Bankruptcy Court to clean up and position for redevelopment certain properties and other facilities owned by former GMC before the 2009 bankruptcy. With the exception of Tract B (North), the remaining portions of the property that were held by GMC until its bankruptcy in June 2009 are currently owned by the RACER Trust. As stated earlier, Tract B (North), the northern section of the former Main Plant area, was sold in April 2015. The Site boundary, historical operations, and Areas of Interest (AOIs) are provided on Figure 3.

2.2 Hydrologic Setting

2.2.1 Physiography

The Site is situated in the New Castle Till Plains and Drainage ways Section of the Central Till Plain Region as described by Gray (2000). This area was affected by multiple continental glaciations that deposited a thick blanket of glacial sediments over the bedrock. The New Castle Till Plains and Drainage ways Section is primarily underlain by complexly stratified glacial diamict deposits, glaciofluvial sand and gravel deposits and glaciolacustrial silt and clay deposits. The area is characterized by broad plains of low relief crossed by relict glacial meltwater valleys (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

2.2.2 Stormwater/Surface Water Drainage

The Site area is nearly level with elevations ranging from 860 to 880 feet North American Vertical Datum (NAVD) 88. East of MLK Boulevard the elevation is lowest, and the surface elevation

descends into a relict glacial meltwater valley. Former Plant 9, Plant 6, and the Meadowbrook Golf Course are all located in the relict meltwater valley, the western border of which roughly follows the alignment of MLK Boulevard. This valley trends south-southwest from Anderson, Indiana several miles towards Pendleton, Indiana (Brown and others, 2003). A small channelized stream, Stanley Ditch, occupies the north end of the relict meltwater valley and drains westward along the south boundary of the Meadowbrook Golf Course. Stanley Ditch originally flowed to the north between former Plant 6 and Plant 9 but was diverted southward in 1963 to provide stormwater relief for the City of Anderson combined sewer system. As a result, Stanley Ditch is now tributary to Prairie Creek and flows to the south down the trend of the valley to Pendleton, Indiana where it joins Fall Creek, a tributary to the West Fork White River.

Stormwater run-off from paved areas of the property either infiltrates the ground surface or is directed to the combined sewer system that discharges north to the City of Anderson Publicly Owned Treatment Work (POTW) on the West Fork White River. The combined sewer system flows northward across the Meadowbrook Golf Course property and beneath former Plant 9 up the trend of the relict meltwater channel. Stormwater on the northern portion of the Meadowbrook Golf course property is directed through piping, and discharges to ponds. Stormwater in the southern portion of the Meadowbrook property drains southward toward Stanley Ditch that flows along the southern and eastern property boundaries of the golf course.

A drainage divide between Stanley Ditch and Prairie Creek, draining to the south, and the combined sewer system, draining north to West Fork White River, appears to occur near the south side of former Plant 9, perhaps near and along the South Anderson Cutoff railroad embankment. Areas to the south of the railroad embankment, including most of the Meadowbrook Golf Course, are floodway and floodway fringe areas subject to flooding (FEMA, February 18, 1994). (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

2.2.3 Hydrogeology

Figure 4 presents a generalized, schematic east-west hydrogeologic cross-section of the unconsolidated materials at the Site showing monitoring well completion intervals. The unconsolidated deposits range from less than 20 feet to over 160 feet in thickness and overlie an irregular bedrock surface. Bedrock beneath the Site consists of carbonate rocks of Silurian age. The bedrock topography beneath the Site slopes to the northwest into a pre-glacial bedrock valley. The bedrock is high (above 840 foot elevation) in the southern portion of the former Plant 9 area and at the Meadowbrook Golf Course. Bedrock is generally only about 20 feet below ground surface (bgs) in this area as a result of both the high bedrock elevation and low ground surface elevation in the relict meltwater valley area east of MLK Boulevard. To the northwest, the bedrock elevation descends to below 730 foot elevation at former groundwater production well 11 and the bedrock in this area is in excess of 158 feet bgs.

Detailed hydrogeologic cross-sections are presented in both the Stage II RFI Data Report (Earth Tech, March 30, 2005) and the RFI Final Report (Earth Tech and ENVIRON, September 28, 2007). Five distinct geologic units are recognized in the unconsolidated surficial soil materials. These units are identified from top to bottom as Units 1 to 5.

Unit 1 is a heterogeneous fill material consisting of silty clay loam, silty clay, sandy clay, sandy clay loam, and loam texture soil intermixed, in places, with debris consisting of wood, brick, glass, brick, concrete, coal fragments, and cinders. The unit consists of fill material placed at various times during the developmental history of the property and is generally no more than a few feet in

thickness. In places, the lower portion of the Unit 1 fill is saturated and a localized perched groundwater zone occurs. The clayey diamicts in the underlying Unit 2 confining unit cause this perched groundwater condition. Saturated conditions have been observed in the basal portion of Unit 1 in several shallow AOC 1 – South Court Area soil borings.

Unit 2 is a glacial diamict of silty clay loam, silty clay, and loam texture with occasional thin, interbedded sand and gravel deposits. Sand and gravel lithologies make up a small percentage of the unit. Unit 2 is thin in southern and eastern parts of the Site, but thickens to the north and west.

Unit 3 consists of stratified sand and gravel and forms the uppermost aquifer beneath the Site. In places, a diamict occurs within Unit 3 and is identified as the Unit 3 Confining Bed. At some locations the confining bed is represented by a distinctive silty texture and laminated structure. The confining bed is hydrologically significant because it separates the Unit 3 aquifer into an upper portion (Unit 3S) and lower portion (Unit 3D). Unit 3 is generally only 10 to 20 feet thick in the eastern part of the Site beneath the meltwater valley. The unit thickens appreciably in the western part of the area where it forms the major portion of the unconsolidated deposits.

Unit 3 is almost entirely within the phreatic zone and is the uppermost aquifer unit at the Site. Groundwater may exist in the unit under both confined and unconfined conditions. Where the base of Unit 2 is relatively high in elevation, the upper few feet of Unit 3 are unsaturated, and unconfined conditions occur. At locations where the base of Unit 2 is relatively low in elevation the top of Unit 3 is saturated, and confined conditions occur.

Conceptually, Unit 3 may be divided into an upper (Unit 3S) and lower (Unit 3D) part. In those places where there is no physical separation between the upper and lower parts of the unit provided by the Unit 3 Confining Bed, the designations 3S and 3D merely provide a convenient way to refer to the upper and lower portions of the Unit 3 aquifer, and the monitoring wells completed therein. Where a physical separation occurs due to the presence of the Unit 3 Confining Bed, Unit 3S refers to that portion of the aquifer above the confining layer and Unit 3D refers to that portion below the confining layer. Locally, the Unit 3 Confining Bed induces a downward vertical gradient within the Unit 3 aquifer. Where the confining bed is absent, water levels in Units 3S and 3D are comparable.

The lateral groundwater gradient in Unit 3S is directed to the east-northeast in AOC 1 - South Court Area. Locally there are significant variations in the magnitude and direction of the gradient related, in part, to the presence or absence of the Unit 3 Confining Bed. An east-southeast oriented potentiometric trough in Unit 3S persistently occurs in the vicinity MW 40, MW 42, and MW 68 where the confining bed is absent. In this area groundwater flow in Unit 3S appears to be directed easterly into the relict meltwater valley.

The hydraulic gradient for Unit 3D is more consistent and the potentiometric surface for this unit suggests an eastward gradient in the South Court Area and along MLK Boulevard into the relict meltwater valley. The north-northeast / south-southwest oriented relict meltwater valley at former Plant 9 and the Meadowbrook Golf Course appears to induce a hydraulic gradient to the south along its axis. Contaminants in the lower portion of Unit 3 would be expected to move generally eastward and then southward near the former wastewater treatment plant (WWTP) area.

Unit 4 consists of hard diamict of loam or clay loam texture. The unit forms a confining bed between Unit 3 and Silurian carbonate bedrock. The unit is absent from the eastern part of the area at Plant 9 and portions of the adjacent Meadowbrook Golf Course.

Two deep bedrock borings at the north end of the Site (MW 62 and MW 71) encountered a bed of cobbles above the bedrock surface. This zone is referred to as Unit 5. The unit was encountered at no other locations. (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

2.3 Previous Groundwater Investigations

The following sections summarize groundwater investigations that have been conducted at the Site. Monitoring wells on and adjacent to the Site have been installed at various times. There are currently a total of 90 monitoring wells in the area as shown on Figure 2. The earliest Site wells (MW 1 to MW 17) were installed in 1992 and 1993 for the purposes of evaluating a suspected waste oil leak at Area 1 – Former Waste Oil Tank [Solid Waste Management Unit (SWMU) 16]. The longest monitoring history exists for these wells. Most of the 1992 – 1993 wells were installed in Unit 3S. No evidence of a significant waste oil leak was found at SWMU 16, but elevated concentrations of VOCs, primarily trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride were detected in several wells in this area. These wells are now known to be located in and around a source area for the Area 1 – South Court VOC plume, as described later in the report.

Work associated with RFI Stage I in 2000 – 2001 included installation of 20 new monitoring wells (MW 18 to MW 37) and collection of 85 groundwater samples from new and existing wells. The new wells were completed in Units 1, 3S, and 3D. The Stage I investigations partially delineated a groundwater VOC plume extending north and east from AOC 1 - South Court. This plume was found to lie underneath several previously-defined AOIs and was referred to as Area 1. The Stage I RFI investigations identified concentrations of TCE, cis-1,2-DCE, and vinyl chloride above screening criteria based on state and federal Maximum Contaminant Levels (MCLs). A Stage I RFI report was completed in 2001, and this report included a work plan for additional groundwater delineation work in both on and off-Site areas (Earth Tech and ENVIRON, July 31, 2001).

In 2001 a Phase II Environmental Site Assessment was conducted in the north parking area and three monitoring wells (MW1-01 to MW3-01) were installed.

Stage II RFI investigations began in late 2003. Work associated with the Stage II RFI in 2003 – 2005 included installation of 47 monitoring wells (MW 38 to MW 84) and collection of 182 groundwater samples from both new and existing wells. Area 1 was expanded to include Plant 9 as well as off-Site areas including Meadowbrook Golf Course. Seven wells (MW-1 to MW-7) were installed on the golf course by others in 2003. Sampling of MW-4 in October 2003 indicated that high concentrations of cis-1,2-DCE and vinyl chloride were present. Additional wells (MW 56, MW 57, MW 58, MW 77, and MW 85) were installed by GMC on the golf course in 2004 and 2007 to delineate the VOC plume southeast of MW-4. These and other RFI Stage II monitoring wells delineated the concentrations of TCE, cis-1,2-DCE, and vinyl chloride above MCLs both on and off-Site (Earth Tech and ENVIRON, September 28, 2007).

Three additional monitoring wells (MW 86, MW 87, and MW 88) were installed on the Plant 9 property in October 2010 to provide additional downgradient plume delineation. One well was installed downgradient of MW49 (MW89-11) in 2011 to provide additional downgradient plume delineation in proximity to nearby residential land use. In 2012 and 2013, three monitoring wells (MW90-12, MW91-12, and MW92-13) were installed near a recently identified AOI referred to as former Bay M26/M27 to assess groundwater quality in the vicinity of the AOI, not previously investigated. In 2013, four monitoring wells (MW 93-13 to MW 96-13) were installed to delineate the horizontal extent of groundwater impacts at the perceived source area for the former WWTP Area

plume. In 2014 one monitoring well (MW97-14) was installed to monitor the plume stability beneath the Meadowbrook Golf Course.

Seventeen monitoring wells (MW 1-01, MW2-01, MW3-01, MW 11, MW 24, MW 25, MW 34, MW35, MW 52, MW 53, MW 54, MW 55, MW 69, MW 70, MW 71, MW 72, and MW 73) north and west of the former main manufacturing areas, upgradient of the VOC plumes, and not a part of the IDEM approved GMP were abandoned in March and April 2014.

From October 2005 until October 2007 GMC conducted quarterly monitoring of a selected group of monitoring wells according to an interim Site-wide groundwater monitoring plan (Conestoga-Rovers & Associates, September 20, 2005). This work was conducted for nine consecutive quarters ending in October 2007. Summary results from this monitoring have been provided in the previous 2006 and 2007 Annual Groundwater Monitoring Reports (Earth Tech and ENVIRON January 31, 2007, January 31, 2008). An additional round of groundwater monitoring was conducted in February 2008.

The interim monitoring program was replaced by a Site-wide Groundwater Monitoring Plan associated with the draft Final Corrective Measures Proposal (CMP) for the facility. This program consists of semiannual sampling at a modified well list with sampling of two surface water monitoring points on the Meadowbrook Golf Course conducted three times per year. The sampling plan for this program (AECOM, October 28, 2010) was approved by the IDEM on November 24, 2010. Sampling under this program has been conducted since June 2008. (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

2.4 Area 1 – South Court And Related Areas

The groundwater contaminate plumes at the Site are associated with Area 1 – South Court and Related Areas. Previous isoconcentration maps for Unit 3 suggest there are two separate VOC plumes. One plume is associated with Area 1 – South Court. The AOC 1 – South Court plume extends in a northeast direction from the South Court beneath several SWMUs in the former Main Plant building area. The predominant VOC contaminants detected in this area are TCE, cis-1,2-DCE, and vinyl chloride. The highest reported concentrations of TCE in this plume are found in the South Court at MW 3 (Unit 3S) and MW 15 (Unit 3S). Perched groundwater in Unit 1 appears to serve as a source area for VOC contaminants in Unit 3. These VOC contaminants are present in both the 3S and 3D portions of Unit 3, but concentrations are generally higher in the upper portion of the unit.

A separate plume is located along and east of MLK Boulevard. The primary evidence for separation of this plume from the AOC 1 – South Court plume comes from five Unit 3S wells located between the plumes where VOCs have not been detected, or detected at only very low levels (MW 16, MW 17, MW 46, MW 59 and MW 84). The VOC plume east of MLK Boulevard extends from an apparent source near MW 68 and the former WWTP along MLK Boulevard eastward toward former Plant 9 and the Meadowbrook Golf Course. The plume has migrated to the south to at least MW 57 and MW 85 on the golf course. This plume is referred to as the former WWTP Area plume. The predominant VOC constituents detected in this area are cis-1,2-DCE, and vinyl chloride. TCE is only a minor plume component.

2.5 Interim Measures

GMC implemented three interim measures (IMs) related to soil and groundwater at the Site. One interim measure included the removal of soil at the MW 31 area of area of concern (AOC) 1 – South

Court that contained TCE concentrations that were an order of magnitude greater than the soil concentrations in other portions of the area. In addition to removing the soil in this area, perched groundwater in Unit 1 fill was treated with hydrogen release compound (HRC®) as a source control measure for TCE, cis-1,2-DCE, and vinyl chloride in Unit 1 and the underlying Unit 3 groundwater. During the IM, monitoring well MW 31 completed in the fill soil was removed. Following the IM a replacement well (MW 31R) was installed at the former MW 31 well location.

The second interim measure implemented by GMC included the abandonment of two potable wells at the Meadowbrook Golf Course and subsequent connection of the golf course to public water supply. In addition, GMC and the owners of the Meadowbrook Golf Course have entered into an access agreement that prohibits the use of groundwater under the golf course property. The agreement does allow use of surface water from a pond on the property for irrigation purposes. Samples from this pond are regularly collected and analyzed for VOCs.

The third interim measure implemented by GMC included the abandonment and plugging of five former groundwater production wells on Site. This work was completed during the period April 30 to September 4, 2007 in accordance with Indiana Department of Natural Resources (IDNR) well abandonment rules (312 IAC 13). Abandonment activities included electrical disconnect, pump motor and pump column removal, and well grouting. The work followed a written work plan for well abandonment (Earth Tech, July 27, 2006) and was conducted by a licensed State of Indiana water well drilling contractor. The work is summarized in an Earth Tech memo dated November 16, 2007. (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

3. Groundwater and Surface Water Monitoring Activities

Groundwater and surface water monitoring activities were conducted in 2015 in general accordance with the Site-wide Groundwater Monitoring Plan, as modified. The Site-wide groundwater monitoring program includes 39 monitoring wells sampled annually with a subset of these wells sampled semi-annually. The surface water monitoring program includes sampling the Meadowbrook Golf Course Irrigation Pond during the spring, summer, and fall seasons. A summary of the Site-wide groundwater monitoring program is provided in Table 1. Monitoring well construction details are provided in Table 2.

3.1 Water Level Measurements

Water level measurements were collected during the April and October 2015 monitoring events. During the April 2015 event, water levels were generally collected from accessible monitoring wells included in the Site-wide groundwater monitoring program. During the October 2015 event, water levels were collected from all accessible monitoring wells. Some monitoring wells were not gauged during either event as they could not be located or were not accessible. The static groundwater elevations measured during the April and October 2015 monitoring events are summarized in Table 3, along with previous groundwater elevations measured in October 2014 for comparative reference.

3.2 Monitoring Well Sampling

There are currently 39 wells included in the annual monitoring activities as summarized in Table 1. Semi-annual groundwater monitoring was conducted by GHD between April 27 and 29, 2015. Annual groundwater monitoring was conducted by GHD between October 7 and 20, 2015. A sample key summarizing the groundwater samples collected during the April and October 2015 monitoring events is provided in Table 4.

In the 2014 Annual Groundwater Monitoring Report, GHD recommended that sampling for natural attenuation (NA) parameters continue on an annual basis in October 2015 to assist in evaluating remedial alternatives for both VOC plumes. During the October 2015 sampling event, NA parameters were collected from the following monitoring wells; MW-2, MW 3, MW-4, MW 8, MW 15, MW 21, MW 31R, MW 40, MW 49, MW 57, MW 58, MW 64, MW 66, MW 68, MW 79, MW 85, and MW 89-11. The NA field parameters collected included dissolved oxygen (DO), ferrous iron, oxygen reduction potential (ORP), and pH and the NA laboratory parameters analyzed included alkalinity (bicarbonate and carbonate), chloride, dissolved gases (ethane, ethene, methane), dissolved manganese, dissolved organic carbon, hardness, nitrate, nitrite, sulfate, sulfide, and total organic carbon.

Prior to groundwater sample collection, the monitoring wells were purged using a submersible pump and low flow purge techniques, to the extent practical to remove suspended solids, reduce turbidity, and allow visual observation of sample color. Field parameters including conductivity, DO, oxygen ORP, pH, temperature, and turbidity were recorded. No color consistent with electroplating operations was observed during purging activities. Groundwater samples were collected using a submersible pump and low flow sampling techniques. Groundwater samples, including field duplicate and matrix spike/matrix spike duplicate (MS/MSD) samples, were submitted to TestAmerica for chemical analysis of target compound list (TCL) VOCs using analytical method 8260B. Well stabilization parameters recorded by GHD are provided in Table 5.

Monitoring wells MW 75 and MW 76 could not be sampled during the October sampling event as the monitoring wells have been covered over with 1- to 2-feet of gravel during construction activities by the new owner of Tract B (North). RACER Trust is working with the developer of the property to repair/replace the wells.

3.3 Surface Water Sampling

Surface water samples were collected by GHD on April 27, July 10, and October 20, 2015 from the central irrigation pond located southeast of MW-85 on the Meadowbrook Golf Course. Samples were collected near the irrigation water intake (Pond Intake) and also from a location closest to MW-85 (Pond North). Surface water samples, were submitted to TestAmerica for chemical analysis of TCL VOCs using analytical method 8260B.

3.4 Sampling Protocol

Monitoring well and surface water samples collected were assigned a unique sample identification (ID) number. Sample ID numbers were recorded in a field book with the corresponding sample location.

All monitoring well samples were collected using low-flow submersible pumps that are dedicated to the project and well-specific dedicated Teflon-lined pump discharge tubing. All non-consumable

equipment that contacted groundwater was decontaminated in accordance with the Field Method Guidelines (FMGs) contained in the Site-wide Groundwater Monitoring Plan. Consumable equipment (tubing) and personal protective equipment (PPE) were appropriately disposed of off-Site.

Investigative derived waste (IDW) generated from purge and decontamination activities was containerized in an on-Site bulk polyethylene tank. A non-hazardous waste profile for the IDW was developed in November 2015. The IDW was removed from the Site for appropriate off-Site disposal on November 17, 2015 by Heritage Environmental Services.

4. Potentiometric Surface Mapping

Groundwater elevations were recorded at select monitoring wells in April and all accessible monitoring wells in October 2015. The groundwater elevations measured during the April and October 2015 monitoring events are summarized in Table 3, along with previous groundwater elevations measured in October 2014 for comparative reference. Water levels measured during the April event were generally higher than those measured during October.

Based on the October 2015 groundwater elevations, GHD developed potentiometric groundwater contours for Unit 3S, Unit 3D, and the bedrock aquifers as shown on Figures 5 to 7, respectively.

The groundwater contours representative of the October 2015 Unit 3S data are provided on Figure 5. The groundwater elevation contour map indicates that there is a general northeasterly gradient beneath the central and northern portions of the former Main Plant building. Beneath the southern portion of the former Main Plant, groundwater flow is variable. Data from the October event again indicates the presence of a prominent groundwater mound, or ridge in Unit 3S that extends in a north-south arc from the MW 46 area on the south to about MW 29 on the north. As discussed in previous annual reports, this groundwater high appears to separate the AOC-1 South Court and WWTP Area plumes. The AOC-1 South Court plume extends beneath the former Main Plant building and affects several monitoring wells including, from south to north, MW 79, MW 60, and MW 51. In contrast, the Unit 3S monitoring wells along the arc including MW 46, MW 16, MW 84, MW 59, and MW 29 have not shown any significant VOC contamination.

The groundwater contours representative of October 2015 Unit 3D data are provided on Figure 6. The groundwater elevation contour map indicates that there is a general easterly gradient across the west portion of the Site and a general northwesterly gradient across the east portion of the Site into the Meltwater Valley.

The groundwater contours representative of the October 2015 bedrock aquifer data are provided on Figure 7. The groundwater elevation contour map indicates that there is an easterly gradient in the bedrock across the Site.

5. Analytical Results

The sample key (Table 4) summarizes the groundwater and surface water monitoring conducted in 2015. The 2015 VOC laboratory analytical data generated from the groundwater and surface water sampling have been summarized in Table 6 (groundwater VOCs) and Table 7 (surface water VOCs), respectively. Analytical data from all sampling events between 2011 and 2015 are

presented on Figure 8 (on-Site) and Figure 9 (off-Site). Excluding chlorobenzene, styrene, and tetrachloroethene, the VOC parameter list shown on Figure 8 and Figure 9 includes any VOC compound that has exceeded conservative screening criteria at any well or surface water location during any sampling event. As noted in previous annual reports, chlorobenzene, styrene, and tetrachloroethene were detected in one June 2008 groundwater sample at MW 40 (WG-062608-JD-007) at concentrations over the drinking water criteria. Chlorobenzene and styrene have only been detected in this one sample, and the reported concentrations of 0.15 milligram per liter (mg/L) (with qualifier J – estimated value below reporting limit) and 0.14 mg/L (also with qualifier J), respectively, are only slightly higher than the drinking water criteria of 0.1 mg/L. Both results were well below the sample reporting limit of 1.0 mg/L. Tetrachloroethene has been detected in only one groundwater sample at the Site since 2008. This detected concentration (0.43 mg/L with qualifier J in the June 2008 MW 40 sample) exceeded the drinking water criteria of 0.005 mg/L. Again the reported concentration of 0.43 mg/L was well below the sample reporting limit of 1.0 mg/L. Chlorobenzene, styrene, and tetrachloroethene were not detected in the subsequent events. For these reasons, chlorobenzene, styrene, and tetrachloroethene are not included in Figure 8 or Figure 9. The screening procedure is explained in Section 5.1.

TCE, cis-1,2-DCE and vinyl chloride remain the primary constituents associated with the AOC 1 – South Court and WWTP Area VOC plumes. Isoconcentration maps for TCE, cis-1,2–DCE and vinyl chloride are presented on Figures 10 through 12, respectively.

Data verification and validation reports for the analytical data collected during the 2015 Site-wide Groundwater Monitoring Plan activities were completed by GHD and are provided in Appendix A. Based on the verification and validation reports detailed in Appendix A, the 2015 data is acceptable with the specific qualifications noted.

5.1 Risk-Based Screening

A conservative risk-based screening was performed on the groundwater and surface water data collected during the Site-wide groundwater monitoring program in 2015. The data were compared to IDEM's Remediation Closure Guide Screening Levels (RCGSL) and conservative risk-based screening criteria based on potential exposure scenarios that were evaluated in CRA's Refined Human Health Risk Assessment and Derivation of Site-Specific Risk-based Screening Levels Report (October 2013) (RHHRA).

The groundwater monitoring data collected from areas where current and reasonably expected future land use is commercial/industrial were screened against the following: 1) IDEM RCGSLs - Vapor Exposure Commercial/Industrial Criteria and 2) Site-specific Commercial/Industrial Tap Water Use Criteria. Derivation of the Site-specific screening criteria is presented in RHHRA. Sampling points screened against these criteria are shown on Figure 8.

Groundwater data collected from areas where current and reasonably expected future land use is not commercial/industrial were screened against the following: 1) IDEM RCGSLs - Residential Tap Water Criteria; 2) IDEM RCGSLs - Vapor Exposure Residential Criteria; 3) IDEM RCGSLs - Vapor Exposure Commercial/Industrial Criteria; 4) Site-specific Recreator (Resident Swimming Pool) Criteria; 5) Site-specific Commercial/Industrial Tap Water Use Criteria. Sampling points screened against these criteria are shown on Figure 9.

5.2 AOC 1 – South Court Plume

The AOC 1 – South Court plume area contains elevated concentrations of TCE and cis-1,2-DCE with the greatest TCE exceedances in monitoring wells near the AOC 1 - South Court source area. A summary of significant findings with respect to the 2015 analytical results for the South Court is provided in the following paragraphs.

Historically, increasing trends have been identified at some wells in the South Court plume. Most recently, MW49 and MW 79 have exhibited increasing trends in concentration of cis-1,2-DCE. The concentration of cis-1,2-DCE at off-Site monitoring well MW 49 in October 2015 was marginally lower than the concentration detected in October 2013, which was the highest recorded value to date. Downgradient of MW 49 (east-northeast and east), MW 46 and MW 89-11 were either non-detect or exhibited only very low concentrations of VOCs, respectively. The concentration of cis-1,2-DCE at on-Site monitoring well MW 79 remained relatively unchanged when the October 2014 and October 2015 results were compared. In October 2015 the extent of the AOC 1 – South Court plume remained defined on the east side with non-detect results for all VOC constituents at monitoring wells MW 37 and MW 46. Low level concentrations have been detected at east perimeter wells MW 16 and MW 84 however, the detected concentrations are estimated below the associated laboratory report limit for cis-1,2-DCE. As stated earlier, MW 75 and MW 76 could not be sampled during the October 2015 sampling event and therefore the north perimeter boundary of the AOC 1 – South Court plume could not be confirmed in 2015. Note that data from these wells for the past nine sampling events/years has remained consistent and below applicable criteria.

MW 12 (Unit 3I), located west of the former Main Plant building, continues to show a long term decline in cis-1,2-DCE concentration, the principal VOC compound in this well, and TCE. This well is located in an upgradient Unit 3 position. VOC contamination was likely mobilized to this upgradient position as a result of historical groundwater production well pumping at PW 11 and PW 12 which acted to reverse the normal eastward gradient. Pumping of these wells ceased in about 1989 when the facility converted to municipal water. Both production wells were plugged and abandoned in 2007. The decline in cis-1,2-DCE and TCE concentrations since 1993 is likely attributable to the cessation of pumping.

5.3 Former WWTP Area Plume

Monitoring wells in the former WWTP Area plume area contain elevated concentrations of primarily cis-1,2-DCE and vinyl chloride. A summary of significant findings with respect to the 2015 analytical results for the WWTP Area is provided in the following paragraphs.

In 2015, monitoring well MW 85 within the tail marginal area of the former WWTP Area plume had the highest recorded level of cis-1,2-DCE to date at this location.

In 2015, perimeter monitoring wells MW-2, MW 56, MW 61, MW 86, and MW 88 were either non detect or contained very low estimated concentrations of vinyl chloride (MW 61 and MW 86) detected below the laboratory report limit.

5.4 Extent of Groundwater Contamination

Figure 10 to Figure 12 show the isoconcentrations of the principal VOC constituents TCE, cis-1,2-DCE and vinyl chloride, respectively, in groundwater for hydrogeologic Unit 3. These isoconcentration maps are based on October 2015 data and update those contained in the 2014

Annual Groundwater Monitoring Report (CRA, February 2015). The October 2015 data for each well are shown on the maps with non-detect results presented as half of the detection limit.

Since the Unit 3S confining unit is absent in the area of former Plant 9 and portions of the Meadowbrook Golf Course, and Unit 3 is relatively thin in these areas, the VOC data from wells in these areas may be shown on the Unit 3S isoconcentration maps. Combining data in this manner provides a useful portrayal of the former WWTP Area plume from its apparent source in the upper part of Unit 3 near MW 68 to its tail area occurrences at former Plant 9 and Meadowbrook Golf Course.

The isoconcentration maps continue to suggest that there are two separate VOC plumes. One plume is associated with AOC 1 – South Court and the second plume is derived from an apparent source area near MW 68. The plumes are separated by a series of Unit 3S wells where VOCs have not been detected, or have been detected only at very low levels (MW 16, MW 17, MW 29, MW 37, MW 46, MW 59 and MW 84). This was confirmed in 2013 with the sampling of monitoring wells MW29, MW 37, MW 46, MW 59, and MW 84, the results of which were non-detect for VOCs. A persistent groundwater ridge in Unit 3S occurs along this line of wells, and this mound appears to serve as a hydraulic barrier separating the two plume areas.

The AOC 1 – South Court plume in Unit 3S extends in a northeast direction from AOC 1 – South Court. The eastward extent of the plume appears to be limited by the groundwater mound noted in the preceding paragraph. The plume is bounded to the northeast by MW 76 which was last sampled in October 2014. Marginal detections of cis-1,2-DCE and vinyl chloride have been identified at this well since 2012 however, the concentrations are estimated as they are lower than the associated reporting limits.

The former WWTP Area plume extends eastward from the apparent source area near MW 68 towards former Plant 9 and has migrated to the east to the vicinity of MW 64 and to the southeast to the vicinity of MW 57 and MW 85. This VOC plume is composed primarily of cis-1,2-DCE and the highest reported concentrations occur at MW-4, MW 40, MW 68, and MW 85.

Prior to July 2006, MW 68, located just west of MLK Boulevard generally had the highest cis-1,2-DCE concentration in this plume and is inferred to be closest to the VOC source area. From December 2006 until April 2009 the highest cis-1,2-DCE concentration was generally found downgradient at MW 40. Since December 2009, the highest cis-1,2-DCE concentration has generally been found at MW-4, as indicated on the current isoconcentration map. This trend is consistent with the findings in the plume stability analysis completed as part of the Supplemental Analysis in Support of the CMP (GHD, August 12, 2015). The plume stability analysis concluded that TCE equivalent is decreasing in concentration and mass, while increasing in plume area advancing downgradient along the predominant flow direction.

The northeastern extent of the WWTP Area plume is established by MW 86 and MW 88 where VOCs are non-detect or, where detected, are detected at estimated concentrations below the reporting limit.

Vinyl chloride and TCE are subordinate components of the former WWTP Area plume. TCE is a relatively minor component even in the source area of this plume. The highest reported concentrations for vinyl chloride occur downgradient at MW-4, MW 40, and MW 85. The east edge of the former WWTP Area plume is marked by persistent occurrences of vinyl chloride in Unit 3D wells MW 57, MW 58, MW 64, and MW 66.

5.5 Surface Water

Cis-1,2-DCE, trans-1,2-dichloroethene (trans-1,2-DCE) and vinyl chloride were detected at surface water monitoring locations Pond North and Pond Intake during one or more surface water sampling events conducted in 2015. The detected concentrations of vinyl chloride at the Pond North and Pond Intake sampling locations exceeded the relevant screening criteria (i.e., recreator). No other parameters were detected above relevant screening criteria at surface water monitors Pond North or Pond Intake.

6. MNA Evaluation

During the October 2015 sampling event, groundwater samples were collected and analyzed for NA parameters at 17 monitoring wells including ten on-Site monitoring wells (MW 3, MW 8, MW 15, MW 21, MW 31R, MW 40, MW 64, MW 66, MW 68 and MW 79) and seven off-Site monitoring wells (MW-2, MW-4, MW 49, MW 57, MW 58, MW 85 and MW 89-11). These groundwater samples were analyzed for alkalinity, chloride, nitrate, sulfate, sulfide, total organic carbon (TOC), dissolved oxygen, ferrous iron, ORP, pH, ethane, ethene, and methane. NA data from 2011 to 2015 are presented on Figure 13.

The NA sample results were evaluated to determine if biodegradation of VOCs is occurring and if conditions at the Site are conducive for continued biodegradation to occur. A scoring system developed by the United States Environmental Protection Agency (U.S. EPA) in their "Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water" (Technical Protocol) (U.S. EPA, 1998) was used to evaluate the conditions relevant to the South Court Area and former WWTP Area plumes. The AOC 1 – South Court plume was assessed using the wells within and near the South Court area (MW 3, MW 8, MW 15, MW 49, and MW 79). The former WWTP Area plume was assessed using results from wells associated with its extents (MW 68, MW 40, MW-4, MW 57, MW 58, MW 64, MW 66, and MW 85). The locations selected for the NA evaluation represent conditions at different locations within the plume and along the flow path.

6.1 Natural Attenuation Processes

Microorganisms in the subsurface can biodegrade chlorinated VOCs under reducing conditions via reductive dechlorination. If the natural aquifer condition is aerobic, an increase in reducing conditions in the source area relative to background conditions indicates more microbial activity, and therefore, biodegradation. For the most robust biodegradation of chlorinated VOCs to occur, conditions in the source zone should be sulfate-reducing or methanogenic.

A key indicator of biodegradation is the presence of daughter products at monitoring wells within the groundwater plume. Cis-1,2-DCE and vinyl chloride are the anaerobic biodegradation products of TCE. Vinyl chloride and chloride are the anaerobic biodegradation products of cis-1,2-DCE. Under anaerobic conditions, vinyl chloride can undergo further biodegradation to form ethene. Chloride, ethane, and ethene are the ultimate biodegradation products of all of the chlorinated ethenes under reducing conditions. 1,1,1-trichloroethane will biodegrade to 1,1-dichloroethane via the same processes under reducing conditions. An assessment of the degradation products observed at the Site is part of the score card evaluation.

In order to rank the evidence for biodegradation, the EPA score card assigns values for the redox conditions of the plume and the presence of daughter products. Points may also be gained or lost if

conditions are especially favorable or unfavorable for microbial activity (i.e., pH and temperature). The final score is given for the plume as a whole. In accordance with the Technical Protocol, the score for each NA parameter is determined by comparing the background condition for that parameter against the most favorable value measured in the plume. The most favorable reducing conditions typically occur in the most contaminated zone(s). For example, if a location in the source zone has concentrations of methane greater than 0.5 mg/L, then the plume would receive the associated score (3 points), even if other locations in the plume have lower methane concentrations. In accordance with the Technical Protocol, the individual scores for each NA parameter are summed to provide the total points awarded for each plume. Based on the total points awarded, the evidence for anaerobic biodegradation is defined as inadequate, limited, adequate, or strong.

The results of the screening process are provided in Table 8 and indicate that there is adequate evidence for anaerobic biodegradation of chlorinated organics at both the AOC 1 – South Court Plume and the former WWTP Area Plume.

6.2 Assessment Results

Background conditions in geologic Units 3S and 3D are generally anaerobic, although conditions at MW89-11 were more aerobic in 2015 than in 2014. Background concentrations of dissolved oxygen and nitrate were generally low, with correspondingly low ORP values. Dissolved iron was occasionally detected, along with low concentrations of methane. These results are consistent with those from previous years. Based on these and historical data, background conditions are reducing, in the range conducive to the occurrence of reductive biodegradation of chlorinated compounds, and the Site is awarded the full points for reducing conditions as shown in Table 8. Because background conditions are reducing, the evaluation of an increase in microbial activity within the source area (biodegradation of chlorinated compounds) will rely more on the presence of degradation products than on changes in redox conditions in the aquifer.

Daughter products of TCE, cis-1,2-DCE and vinyl chloride, were detected at various on-Site locations, and their concentrations were usually greater than other VOCs, particularly in the former WWTP Area plume. The elevated presence of cis-1,2-DCE and vinyl chloride within the groundwater plume provides direct evidence that TCE is being degraded via reductive dechlorination. The relative ratios of DCE isomers are also used to provide information regarding the origin of DCE in groundwater. There are three DCE isomers: 1,1-DCE, cis-1,2-DCE, and trans-1,2-DCE. When DCE is released to the environment anthropogenically, the ratios of the three isomers are relatively equal. However, when DCE is produced through biodegradation of TCE, production of the cis-1,2-DCE isomer is favored over that of trans-1,2-DCE and 1,1-DCE (Wiedemeier et al., 1999; Wiedemeier et al., 1996). At the Site, the concentrations of cis-1,2-DCE are greater than those of the other DCE isomers, providing strong evidence that the DCE has been produced via biodegradation of TCE.

The highest ethene concentration (1.4 mg/L) was detected at monitoring well MW 31R. This provides evidence that the reductive dechlorination of TCE is occurring to completion in the Unit 1 (perched) groundwater, likely facilitated by the introduction of the Hydrogen Release Compounds around MW 31R in 2005. These compounds release lactic acid over time, which enhances biological degradation by maintaining reducing conditions. This location was not included in the screening of the AOC 1 – South Court plume due to the active remediation measures implemented to reduce concentrations in the source zone.

When there are readily available sources of carbon in the aquifer, biodegradation can proceed more intensively. Neither plume met criterion for concentrations of TOC (20 mg/L) or BTEX (0.1 mg/L) in the groundwater; however, the detection limits for the BTEX compounds were higher, in many cases, than the criteria for the scorecard, likely due to elevated concentrations of chlorinated compounds.

Background conditions were required for the relative assessment of alkalinity and chloride. When large amounts of chlorinated VOCs are degraded, chloride and alkalinity increase above background concentrations. Alkalinity can increase due to microbial activity, as the carbon dioxide produced interacts with rock in the subsurface, dissolving carbonate minerals. Chloride is a daughter product of biodegraded chlorinated VOCs. Data collected from wells unimpacted by VOCs (MW-2, MW 21, and MW 89-11) were used to calculate the mean background concentrations of alkalinity (393 mg/L) and chloride (35 mg/L). Concentrations of alkalinity have not exceeded double the mean background conditions, either on-Site or downgradient. Background concentrations are relatively high and may mask contributions to alkalinity from microbial activity. The concentration of chloride was more than double the background concentrations in the WWTP plume at MW 85.

When evaluating the monitoring wells in the AOC 1 – South Court plume on a well-by-well basis, monitoring wells in the source area (MW 8 and MW 15) demonstrated good evidence for anaerobic biodegradation. Greater concentrations of ethene and ethane were detected at MW 8 and MW 15, demonstrating the complete degradation of TCE. Concentrations of 1,1-DCE were also detected at MW 3 and MW 15, which is evidence of the biodegradation of 1,1,1-trichloroethane in the South Court plume source area. Monitoring wells (MW 49 and MW 79) along the tail of the plume exhibit less evidence of anaerobic biodegradation, which may explain the increasing trends noted in the concentration of cis-1,2-DCE at MW 49 and MW 79.

The monitoring locations near the source area of the former WWTP plume (MW 40 and MW 68) and those immediately downgradient (MW 4 and MW 85) demonstrated good evidence of anaerobic biodegradation. Concentrations of cis-DCE, vinyl chloride, and ethene were present, as well as 1,1-dichloroethane. Concentrations of chloride at MW 85 were two times the background value; an indication of upgradient biodegradation.

Ethene, ethane, and methane were detected at most sampled locations, including those near the source areas and closer to the edge of the plumes. This suggests that reductive dechlorination is proceeding to completion in at least some areas of both plumes.

In summary, results of the preliminary U.S. EPA score sheet screening shown in Table 8 indicate that there is adequate evidence that significant natural attenuation of VOCs is occurring via reductive biodegradation at the Site in both the AOC 1 – South Court plume and the former WWTP Area plume.

7. Statistical Analysis

The required statistical data evaluation is presented in Section 4 of the Site-Wide Groundwater Monitoring Plan (Monitoring Plan, AECOM, 2010) and includes the following required elements:

- The statistical evaluation is to be conducted to determine whether the contaminant plumes are stable (i.e., not increasing over time).

- The principal VOC compounds to be considered in the evaluation are TCE, cis-1,2-DCE and vinyl chloride.
- The evaluation of stability is to be carried out using the Mann-Kendall trend test following IDEM RISC guidance (IDEM, February 15, 2001). Notably:
  - A minimum of 4 samples is required to perform the trend test.
  - A minimum detection frequency of 75 percent is required to perform the trend test.
  - Non-detects should be assigned a value below the lowest detected value in the data set.
  - Any field duplicate results should be averaged prior to carrying out statistical testing.
- Trend testing is to be carried out using a significance level of (α) 0.10 (i.e., 90 percent confidence).
- A one-tailed trend test is to be performed (i.e., testing for increases only), using the following statistical hypotheses:
  - Null (no effect) hypothesis (H0) = there is no trend or a decreasing trend in chemical concentrations over time.
  - Alternative hypothesis (HA) = there is an increasing trend over time in chemical concentrations.

The following subsections describe the specific approaches used in carrying out the statistical data evaluation. The data considered in the trend tests are presented in concentration vs. time graphs in Appendix B, and in tabular format in Table B-1.

7.1 Mann-Kendall Test

Methods for statistical trend testing of groundwater quality data are discussed in Section 4.3 of U.S. EPA (2006), Chapter 12 of Helsel & Hirsch (USGS, 2002) and other relevant guidance and reference texts. The evaluation of trends in environmental data is often complicated by factors such as seasonality in data, outlying (grossly atypical) data points, the presence of censored (non-detect) data, small data sets (due to the relatively high costs associated with sample collection and analysis, particularly for trace concentration analyses) and non-linearity in any patterns present through time. Different tests exist, which balance the statistical power of detecting trends against susceptibility to outliers, deviations from model assumptions (e.g., linearity) and the ability to incorporate non-detect data into the analyses.

The Mann-Kendall trend test is suitable for general application across a variety of environmental data applications. This test is non-parametric (rank-based) and, therefore, robust with respect to outlying observations. The Mann-Kendall test neither assumes a particular data distribution (e.g., normal) nor data pattern tested (e.g., linear trend), but rather tests for a monotonic (single-direction) trend in the data over time. Although the test is not as powerful as parametric tests are under optimal conditions, its wide range of applicability makes it a good candidate for use when testing numerous data sets where the effort required for detailed characterization and selection of specific trend tests on a case-by-case basis is not appropriate.

As specified in the Groundwater Monitoring Plan, the Mann-Kendall trend test was used to evaluate the principal VOC monitoring data for the presence of temporal trends. Computational details for the test may be found in Section 4.3.4.1 of U.S. EPA (2006). The test was applied for data sets

containing up to 25 percent non-detects using a one-tailed formulation and a significance level of 0.1, as described above.

Trend tests were carried out separately for each principal VOC at each monitoring well with sufficient temporal data to perform the Mann-Kendall test.

It was noted in two cases, TCE at MW 31R and vinyl chloride at MW 3, non-detect results were present at somewhat-elevated detection limits above the majority of the detected values. In such cases, the comparison of non-detect and detected values is ambiguous (i.e., it cannot be assigned with certainty that the non-detect results are above or below the detected values). In these cases, trend testing was performed excluding the non-detect results, as noted in the table of results in Table 9. Current statistical guidance (e.g., U.S. EPA, 2013) would recommend that any detected values lower than the maximum detection limit for a non-detect be "censored" to that detection limit (i.e., all lower values be considered as non-detects). However, doing so would have reduced the detection frequency to much less than the 75 percent required in the Groundwater Monitoring Plan, and therefore carrying out the trend tests using detected values only permits an appropriate assessment with minimal information loss (i.e., removing a few ambiguous non-detects vs. censoring the majority of the data).

7.2 Outlier Testing

Prior to carrying out trend tests, each data set was screened for the presence of statistical outliers. An outlier is an observation that differs substantially (atypically) from the rest of the population.

Outliers may be identified by graphical or statistical methods. U.S. EPA (2006, 2009) recommends The Extreme Value Test (Dixon's Test) for testing for outliers in data sets containing up to 25 points (the upper limit of this procedure), which was the case for all monitoring data sets evaluated. Dixon's test considers both extreme low values and extreme high values. An important element of assessing outliers is identifying the underlying data distribution of a particular data set prior to performing the test. The data may follow a normal (Gaussian) distribution, in which case the original (untransformed) data are subjected to the outlier test. However, if a data set follows another statistical distribution, (i.e., gamma or lognormal) the data must be transformed prior to using Dixon's test. In testing data distributions for the principal VOC data sets considered, the Shapiro-Wilk W-Test (U.S. EPA, 2006, 2009) was applied using original, cube-root-transformed [approximating the gamma distribution (USGS, 2002)], and log-transformed data sets.

Consistent with the requirements of the Groundwater Monitoring Plan for trend testing, outlier tests were performed only for datasets of four or more points and having 75 percent or more detected values. Outlier testing was performed using a significance level (α) of 0.05 (i.e., 95 percent confidence).

The results of the data distribution and outlier tests are presented in Table B-2. Statistical outliers were identified for cis-1,2-DCE at MW-4, MW 8, MW 14, and MW 31R; and for vinyl chloride at MW 8, as indicated in the Table B-2.

Where statistically-significant outliers were identified, trend testing was carried out twice; first considering all data and second using outlier-excluded data sets. In all cases, the results of the trend tests (i.e., increasing or no trend identified) were consistent both with and without the outliers. Therefore, the presence of statistical outliers in the principal VOC data sets has not impaired the

ability of the present statistical evaluation to identify significant temporal trends, where present in the monitoring data.

7.3 Results

The results from the Mann-Kendall trend test are shown in Table 9. The data used in the trend tests are shown in Table B-1 and a summary of descriptive statistics are shown in Table B-2 of Appendix B, along with the data distribution and outlier testing results.

Of 102 data sets originally considered (three primary VOCs at each of 34 monitoring wells), evaluated, 63 did not require trend analysis due to high frequencies of non-detects (i.e., less than 75 percent detects). The remaining 39 data sets were subjected to the Mann-Kendall trend test. Of these, 29 had no statistically significant trend (i.e., groundwater VOC concentrations are stable or decreasing over time), and ten datasets had significant increasing trends (at a 90 percent confidence level).

Comparing the results to those from the previous (2014) evaluation, one change was observed in the results:

- MW 85 was found to exhibit no significant trend in vinyl chloride concentrations compared to an increasing trend observed in 2014.

Consistent with 2014 data, there are two increasing trends in the AOC 1 – South Court plume wells. Increasing trends are noted for cis-1,2-DCE at MW 49 and MW 79. Increasing trends continue in several monitoring wells in the former WWTP Area plume. Most of the increasing trends relate to vinyl chloride within and along the tail margin of the plume (MW 28, MW 41, MW 58, MW 64, MW 66, and MW 81). An increasing trend for cis-1,2-DCE is also noted at MW-4 and for TCE at MW 68.

The increasing trend in TCE concentrations at MW 68 is based on data from 2005 to 2015. However, when the same trend analysis is performed using only the last seven years of data (i.e., 2009 – 2015), the data set indicates that there is no statistically significant trend and that the TCE concentrations have been stable.

8. Conclusions

Based on the 2015 Annual Groundwater Monitoring activities, including all field and laboratory analytical data generated therefrom, the following conclusions have been developed.

1. Unit 3S potentiometric mapping is consistent with previous mapping. The elevation contour map indicates that there is a general northeasterly gradient in Unit 3S beneath the central and north portions of the former Main Plant building. Beneath the southern portion of the former Main Plant, groundwater flow is variable. Data from the October event again indicates the presence of a prominent groundwater mound, or ridge, in Unit 3S that extends in a north-south arc from the MW 46 area on the south to MW 29 on the north.
2. Groundwater monitoring of the wells along the groundwater mound between the South Court Area and WWTP Area plumes confirms that the VOC plumes remain separate from one another.

3. The Unit 3D potentiometric mapping is consistent with previous mapping. The elevation contour map indicates that there is a general easterly gradient across the west portion of the Site and a general northwesterly gradient across the east portion of the Site into the Meltwater Valley.
4. The bedrock aquifer potentiometric mapping is consistent with previous mapping. The elevation contour map indicates that there is a general easterly gradient across the Site.
5. There is now no significant trend at MW 85. The other observed trends in TCE, cis-1,2-DCE and vinyl chloride concentrations were consistent with the assessment conducted in 2014.
6. Consistent with 2014 data, there are two increasing trends in the AOC 1 – South Court plume wells. Increasing treads are noted for cis-1,2-DCE at MW 49 and MW 79. Downgradient of MW 49 (east-northeast and east), MW 46 and MW 89-11 were either non-detect or exhibited only very low concentrations of VOCs, respectively. In October 2015 the extent of the AOC 1 – South Court plume remained defined on the east side with non-detect or low level estimated concentrations for all VOC constituents at monitoring wells MW 16, MW 37, MW 46, MW 75, and MW 84. MW 75 and MW 76 could not be sampled during the October 2015 sampling event and therefore the north perimeter boundary of the AOC 1 – South Court plume could not be confirmed in 2015.
7. Increasing trends continue in several monitoring wells in the former WWTP Area plume. Most of the increasing trends relate to vinyl chloride within and along the tail margin of the plume (MW 28, MW 41, MW 58, MW 64, MW 66, and MW 81). An increasing trend for cis-1,2-DCE is also noted MW-4 and for TCE at MW 68. The increasing trend in TCE concentrations at MW 68 is based on data from 2005 to 2015. However, when the same trend analysis is performed using only the last seven years of data (i.e., 2009 – 2015), the data set indicates that there is no statistically significant trend and that the TCE concentrations have been stable. In 2015, perimeter monitoring wells MW-2, MW 56, MW 61, MW 86, and MW 88 were either non detect or contained very low estimated concentrations of cis-1,2-DCE (MW 56) or vinyl chloride (MW 61 and MW 86) detected below the laboratory limit.
8. Results of the preliminary U.S. EPA score sheet screening and the presence of daughter products in the groundwater indicate that natural attenuation of VOCs is occurring at the Site in both the AOC 1 – South Court plume and the former WWTP Area plume.
9. Three surface water sampling events were conducted in 2015 (April, July, and October) at the Pond Intake and Pond North surface water monitoring locations at the Meadowbrook Golf Course central irrigation pond. Cis-1,2-DCE, trans-1,2-DCE and vinyl chloride were detected at surface water monitoring locations Pond North and Pond Intake during one or more surface water sampling event conducted in 2015. The detected concentrations of vinyl chloride at the Pond North and Pond Intake sampling locations exceeded the relevant screening criteria (i.e., recreator). No other parameters were detected above relevant screening criteria at surface water monitors Pond North or Pond Intake.
10. Based on monitoring at adjacent monitoring well MW 85, the golf course irrigation pond appears to be within the former WWTP Area plume and the plume is expanding in the direction of the pond.
11. Based on the 2015 groundwater results from residential well MW 89-11, there is no current unacceptable risk to nearby residents due to groundwater volatilization to indoor air.

9. Recommendations

The following recommendations are provided with respect to ongoing monitoring:

1. It is recommended that sampling for NA parameters be continued in 2016 at the following wells: MW-2, MW 3, MW-4, MW 8, MW 15, MW 21, MW 31R, MW 40, MW 49, MW 57, MW 58, MW 64, MW 66, MW 68, MW 79, MW 85 and MW89-11. The proposed NA well network is comprised of wells where historical NA data exists, wells along the groundwater flow paths, and/or wells with recent or long term increasing VOC trends.
2. No other changes to the monitoring program are recommended at this time.

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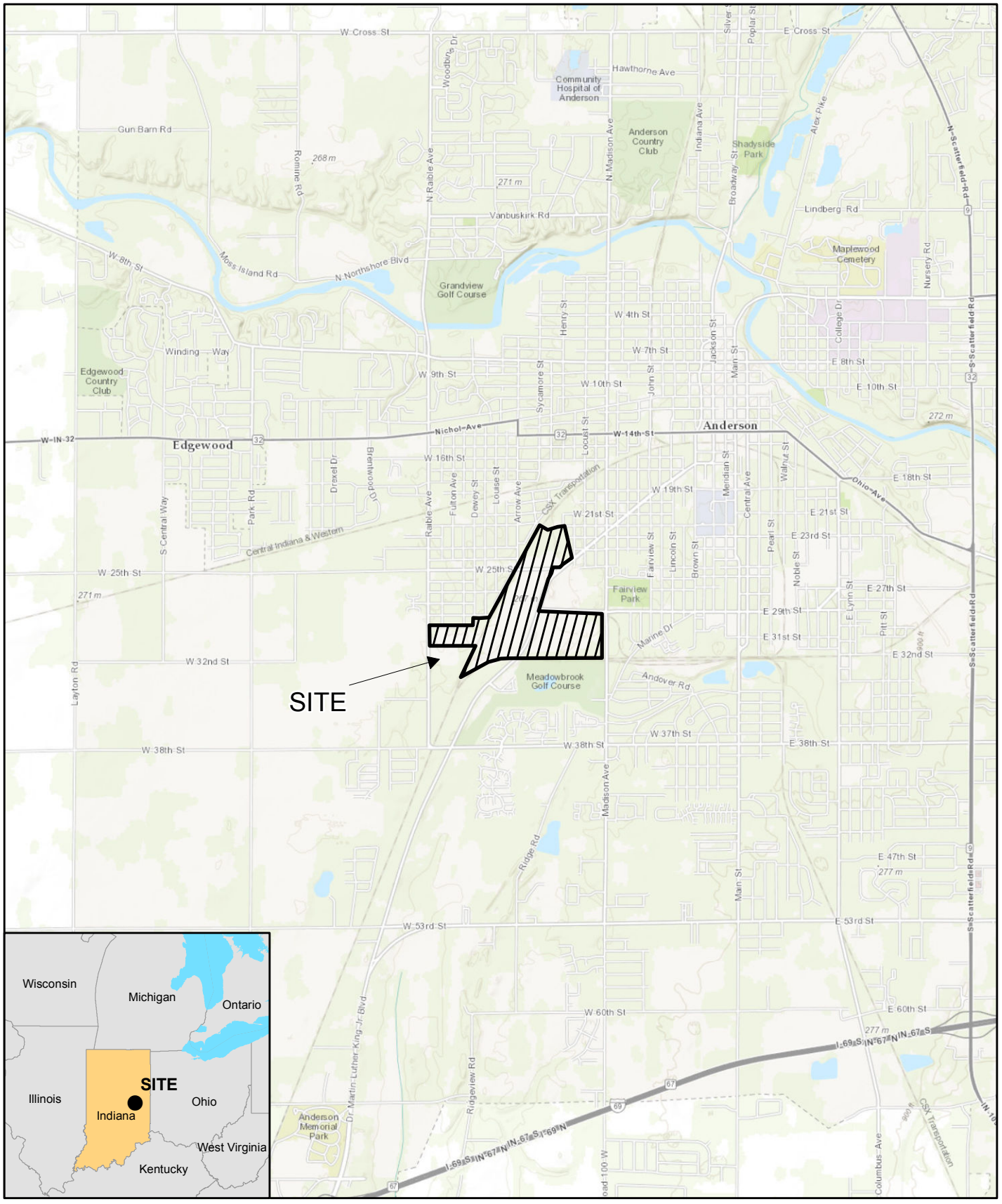
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Source: ESRI Topographic Map, accessed 2015.
Inset Base Map Source: ESRI Base Data, 2008.

0 1,500 3,000 4,500
Feet

Coordinate System:
NAD 1983 StatePlane Indiana East
FIPS 1301 Feet

N

GHD

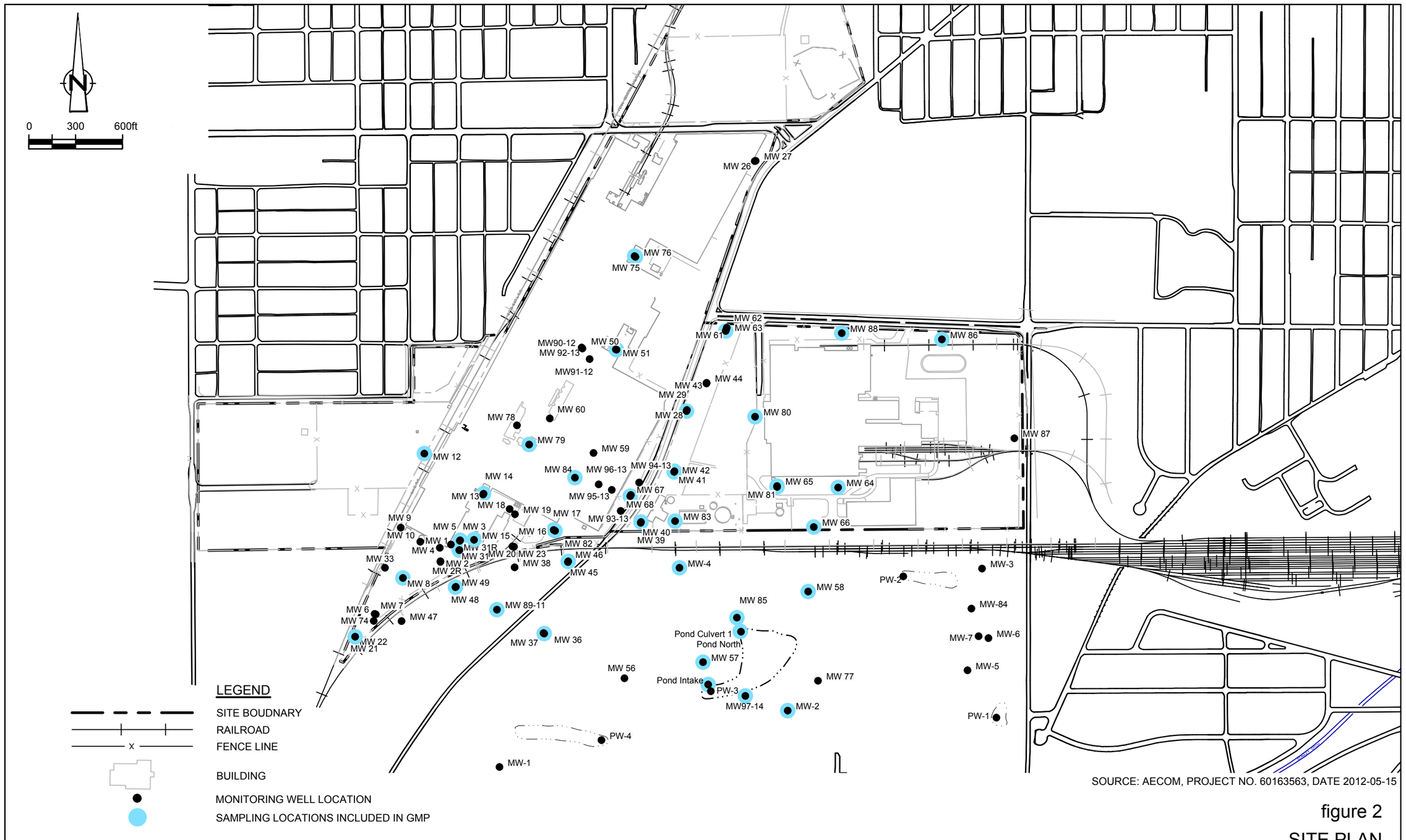
2915 DR. MARTIN LUTHER KING JR. BOULEVARD, ANDERSON, INDIANA
2015 ANNUAL MONITORING REPORT

017302-07
Nov 11, 2015

SITE LOCATION MAP

FIGURE 1

GIS File: Q:\GIS\PROJECTS\17000s\17302\Layouts\045\017302-07(045)GIS-WA001.mxd



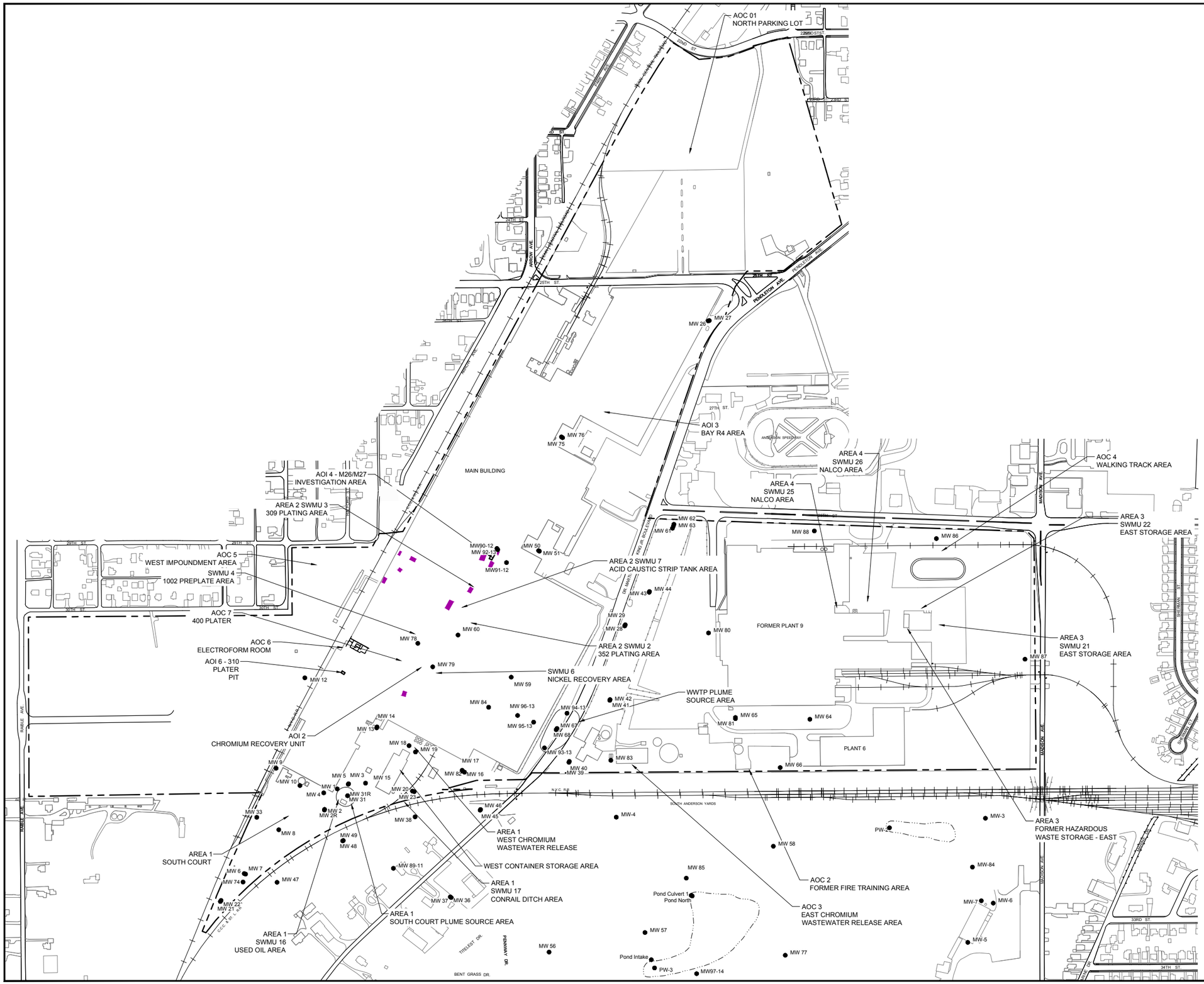
SOURCE: AECOM, PROJECT NO. 60163563, DATE 2012-05-15

figure 2

SITE PLAN
2015 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
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017302-T07(045)GN-SC004 DEC 29, 2015



LEGEND

- SITE BOUNDARY
- RAILROAD
- FENCE LINE
- BUILDING
- M.H. MANHOLE
- C.B. CATCHBASIN
- MW 51 MONITORING WELL LOCATION
- AOI 5 AREA OF STAINED SOIL BENEATH CONCRETE

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

2915 DR. MARTIN LUTHER KING JR. BLVD ANDERSON, INDIANA

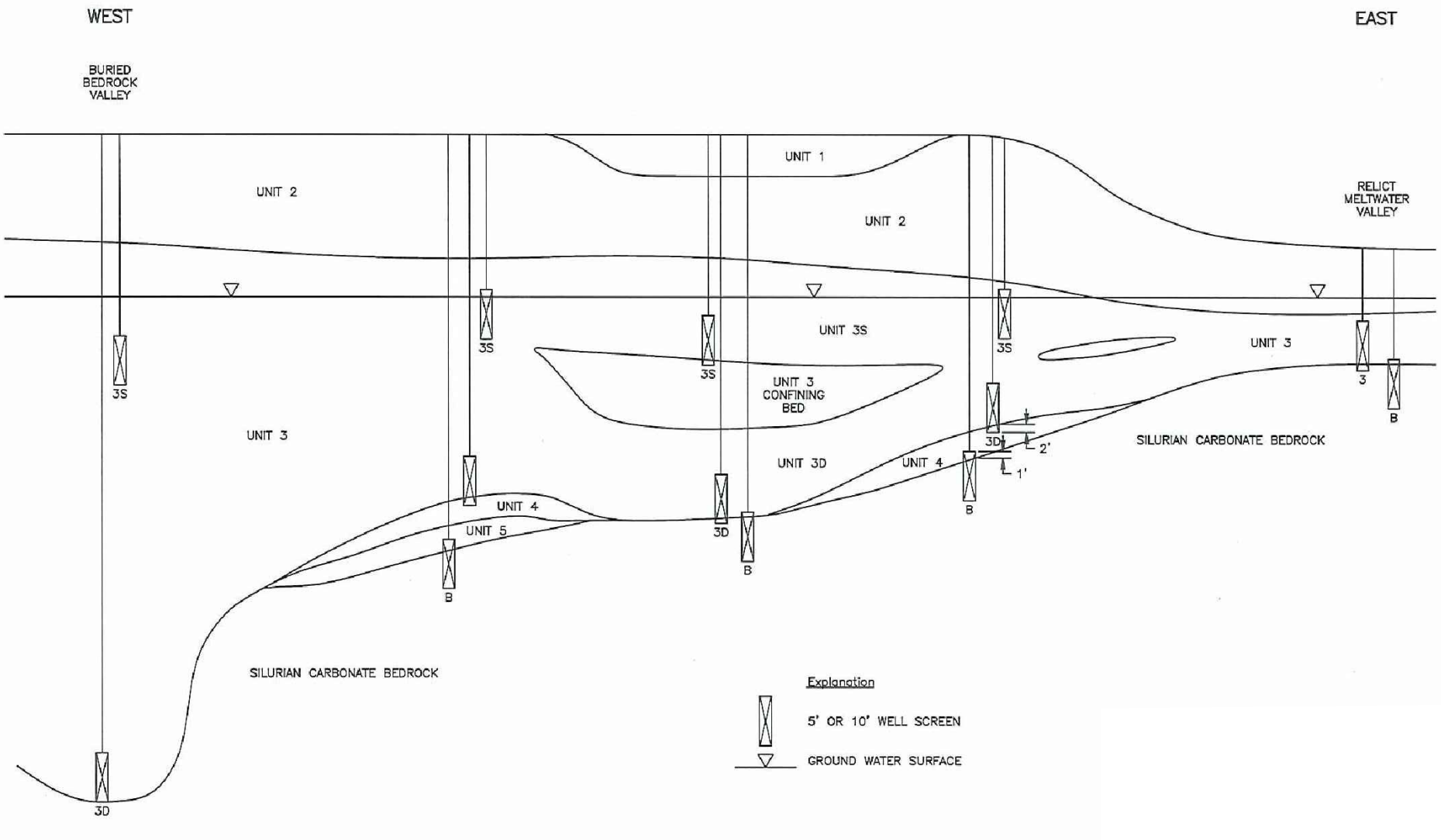
2015 ANNUAL MONITORING REPORT

AREAS OF INTEREST

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Source Reference: CITY OF ANDERSON, INDIANA NAD83 SPCS 1301 IN East zone in US survey Ft			
Project Manager: R.C.	Reviewed By: R. C.	Date: NOVEMBER 2015	
Scale: 1" = 250'	Project Nº: 017302-T07	Report Nº: 045	Drawing Nº: figure 3

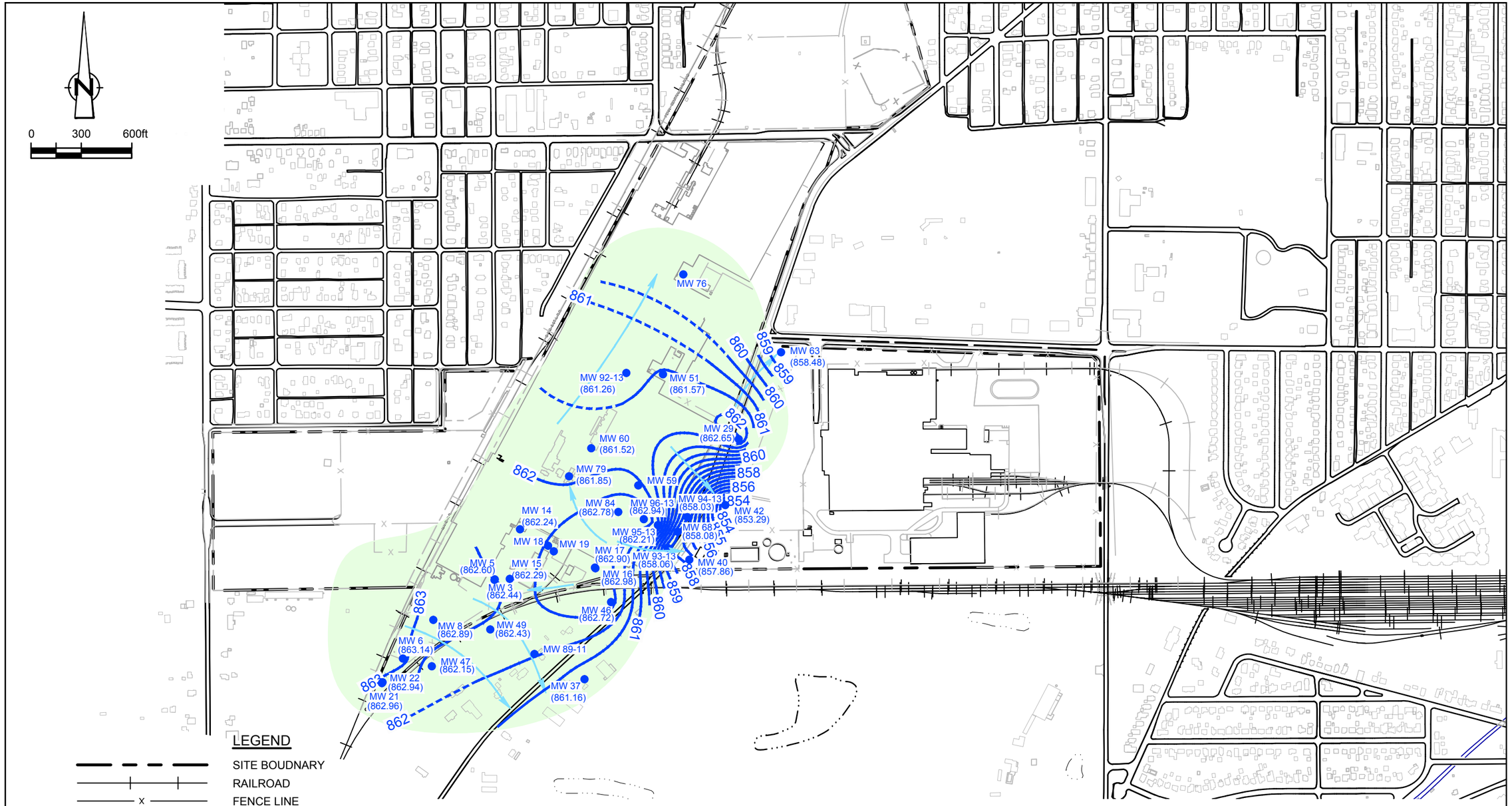
017302-T07(045)GN-SC005 DEC 29, 2015



SOURCE: AECOM PROJECT # 60135322, DATE 01-11, FIG 2-3

figure 4

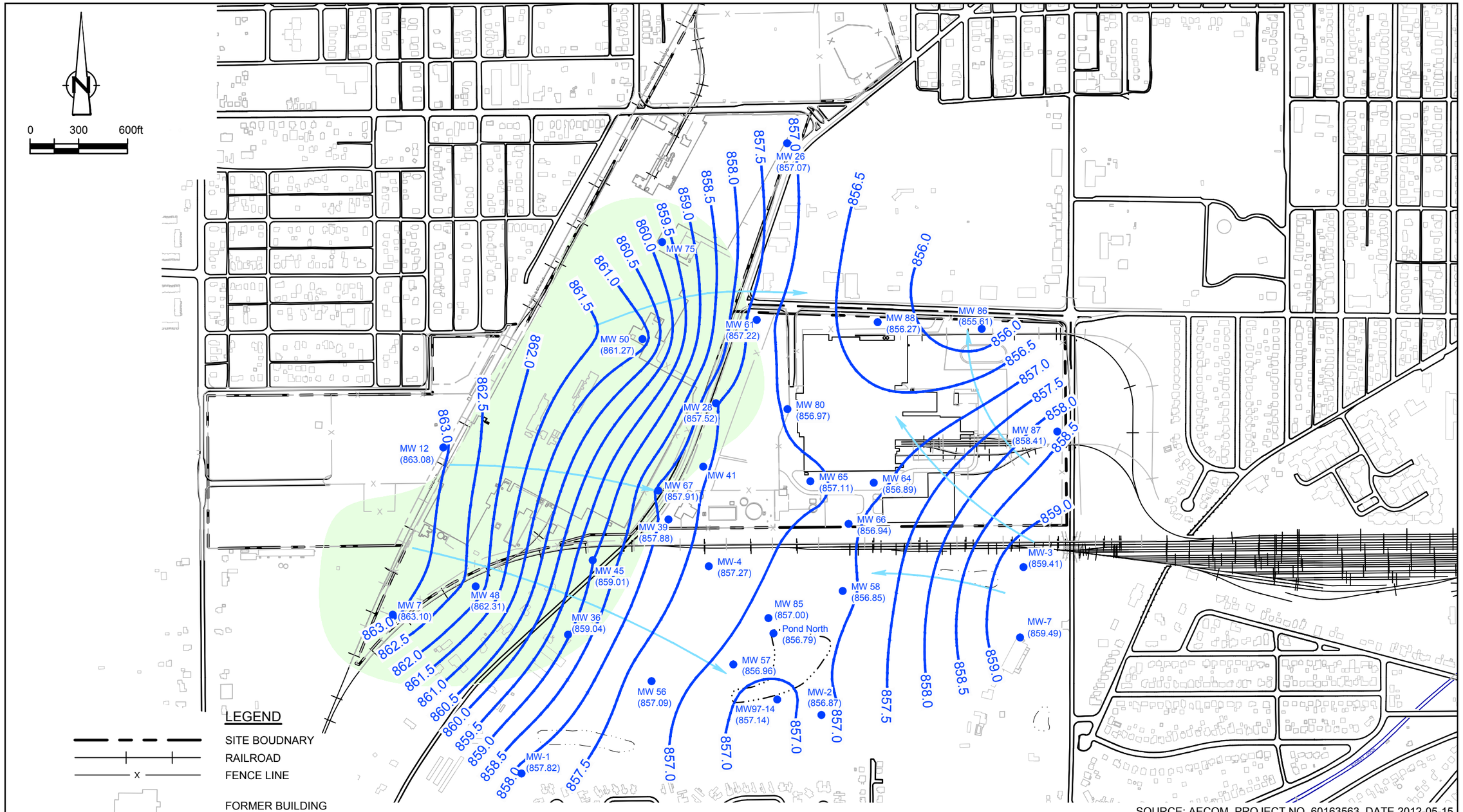
GENERALIZED HYDROGEOLOGIC CROSS SECTION SHOWING WELL COMPLETION ZONES
2015 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
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SOURCE: AECOM, PROJECT NO. 60163563, DATE 2012-05-15

figure 5

POTENTIOMETRIC GROUNDWATER ELEVATIONS - UNIT 3S, OCTOBER 7, 2015
2015 ANNUAL MONITORING REPORT
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LEGEND

- SITE BOUDNARY
- RAILROAD
- FENCE LINE
- FORMER BUILDING
- BUILDING
- MONITORING WELL USED TO DEVELOP CONTOURS
- 862 GROUNDWATER CONTOUR (FEET NAVD 88)
- INFERRED DIRECTION OF GROUNDWATER FLOW
- BOUNDARY OF AREA WHERE UNIT 3 CLAY CONFINING BED IS PRESENT

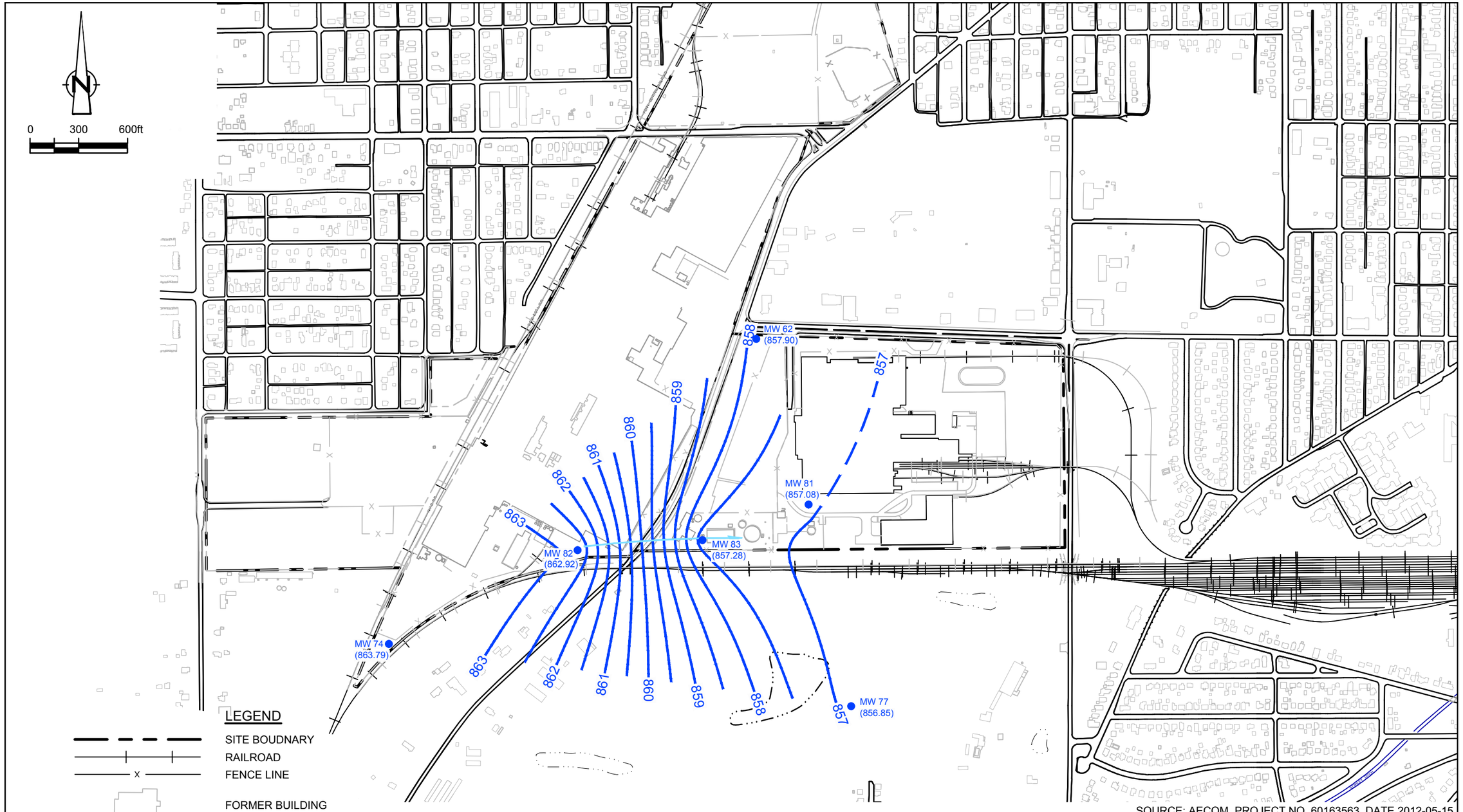
SOURCE: AECOM, PROJECT NO. 60163563, DATE 2012-05-15

figure 6

POTENTIOMETRIC GROUNDWATER ELEVATIONS - UNIT 3D, OCTOBER 7, 2015
2015 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
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017302-T07(045)GN-SC002 JAN 28, 2016



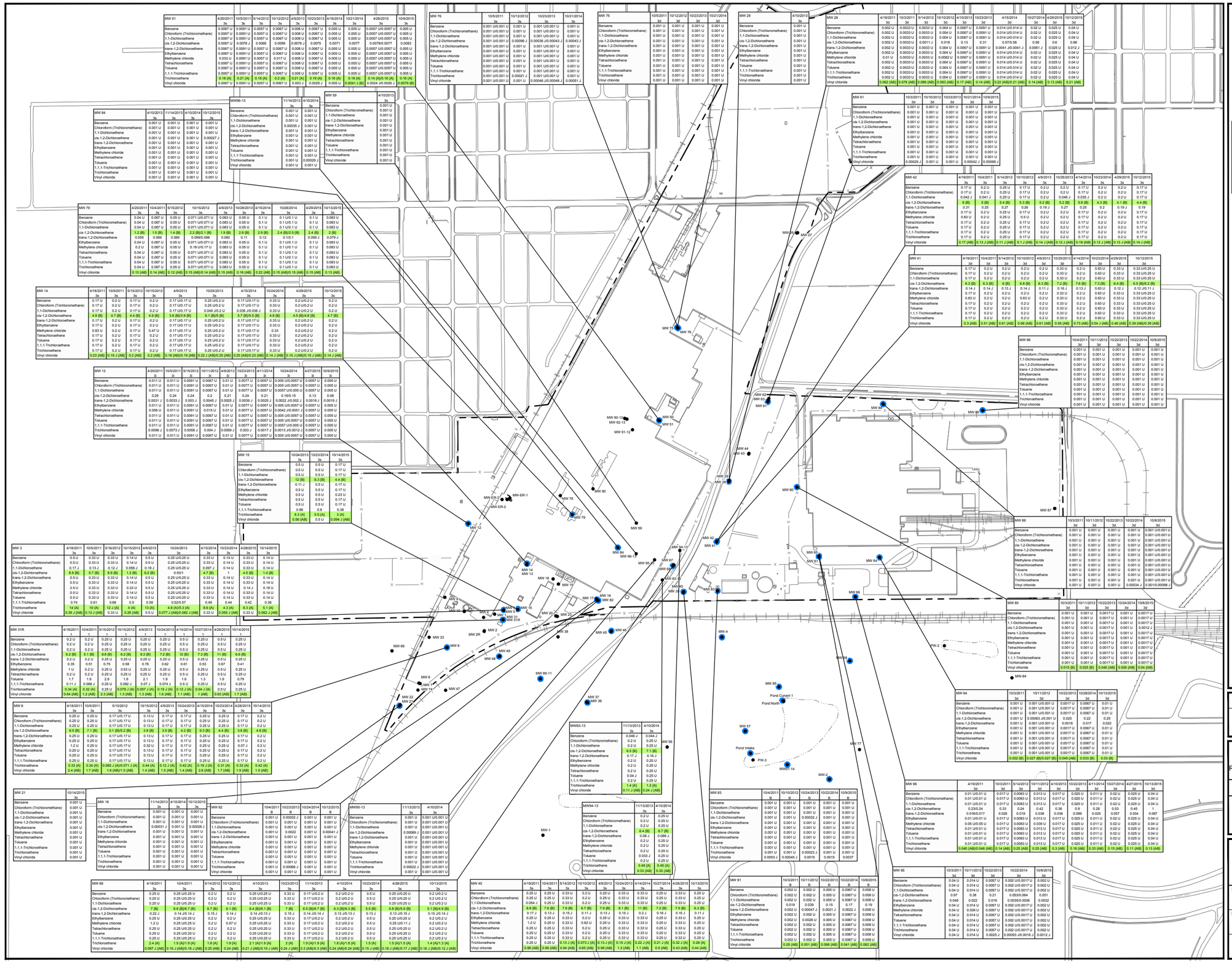
SOURCE: AECOM, PROJECT NO. 60163563, DATE 2012-05-15

figure 7

POTENTIOMETRIC GROUNDWATER ELEVATIONS - UNIT 3 BEDROCK, OCTOBER 7, 2015
2015 ANNUAL MONITORING REPORT
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017302-T07(045)GN-SC003 JAN 28, 2016



MW 51	4/20/2011	10/5/2011	5/14/2012	10/12/2012	4/9/2013	10/23/2013	4/16/2014	10/21/2014	4/28/2015	10/9/2015
	3s	3s	3s	3s	3s	3s	3s	3s	3s	3s
Benzene	0.0067 U	0.0091 U	0.0057 U	0.0067 U	0.008 U	0.0067 U	0.005 U	0.005 U	0.0057 U/0.0057 U	0.005 U
Chloroform (Trichloromethane)	0.0067 U	0.0091 U	0.0057 U	0.0067 U	0.008 U	0.0067 U	0.005 U	0.005 U	0.0057 U/0.0057 U	0.005 U
1,1-Dichloroethene	0.0067 U	0.0091 U	0.0057 U	0.0067 U	0.008 U	0.0067 U	0.005 U	0.005 U	0.0057 U/0.0057 U	0.005 U
cis-1,2-Dichloroethene	0.0067 U	0.0078 J	0.0065	0.0099	0.0076 J	0.0075	0.0071	0.0077	0.0078/0.0077	0.0083
trans-1,2-Dichloroethene	0.0067 U	0.0091 U	0.0057 U	0.0067 U	0.008 U	0.0067 U	0.005 U	0.005 U	0.0057 U/0.0057 U	0.005 U
Ethylbenzene	0.0067 U	0.0091 U	0.0057 U	0.0067 U	0.008 U	0.0067 U	0.005 U	0.005 U	0.0057 U/0.0057 U	0.005 U
Methylene chloride	0.033 U	0.0091 U	0.0057 U	0.017 U	0.008 U	0.0067 U	0.005 U	0.005 U	0.0057 U/0.0057 U	0.005 U
Tetrachloroethene	0.0067 U	0.0091 U	0.0057 U	0.0067 U	0.008 U	0.0067 U	0.005 U	0.005 U	0.0057 U/0.0057 U	0.005 U
Toluene	0.0067 U	0.0091 U	0.0057 U	0.0067 U	0.008 U	0.0067 U	0.005 U	0.005 U	0.0057 U/0.0057 U	0.005 U
1,1,1-Trichloroethane	0.0067 U	0.0091 U	0.0057 U	0.0067 U	0.008 U	0.0067 U	0.005 U	0.005 U	0.0057 U/0.0057 U	0.005 U
Trichloroethene	0.18 (A)	0.21 (A)	0.18 (A)	0.2 (A)	0.21 (A)	0.19 (A)	0.18 (A)	0.18 (A)	0.14 (A)/0.16 (A)	0.16 (A)
Vinyl chloride	0.0067 U	0.0091 U	0.0057 U	0.0067 U	0.003 J	0.0029 J	0.005 U	0.0041 J (B)	0.0024 J/0.0026 J	0.0079 (B)

MW 76	10/5/2011	10/12/2012	10/23/2013	10/21/2014
	3s	3s	3s	3s
Benzene	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
1,1-Dichloroethene	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U/0.001 U	0.00099 J	0.00036 J/0.00043 J	0.00043 J
trans-1,2-Dichloroethene	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Ethylbenzene	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Methylene chloride	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Tetrachloroethene	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Toluene	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Trichloroethene	0.001 U/0.001 U	0.00027 J	0.0004 J/0.00048 J	0.00053 J
Vinyl chloride	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U

MW 75	10/5/2011	10/12/2012	10/23/2013	10/21/2014
	3s	3s	3s	3s
Benzene	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U

MW 29	4/10/2013
	3s
Benzene	0.001 U
Chloroform (Trichloromethane)	0.001 U
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
trans-1,2-Dichloroethene	0.001 U
Ethylbenzene	0.001 U
Methylene chloride	0.001 U
Tetrachloroethene	0.001 U
Toluene	0.001 U
1,1,1-Trichloroethane	0.001 U
Trichloroethene	0.001 U
Vinyl chloride	0.001 U

MW 28	4/18/2011	10/3/2011	5/14/2012	10/10/2012	4/10/2013	10/23/2013	4/15/2014	10/27/2014	4/29/2015	10/12/2015
	3d	3d	3d	3d	3d	3d	3d	3d	3d	3d
Benzene	0.002 U	0.0033 U	0.0033 U	0.004 U	0.0067 U	0.0091 U	0.014 U/0.014 U	0.02 U	0.025 U	0.04 U
Chloroform (Trichloromethane)	0.002 U	0.0033 U	0.0033 U	0.004 U	0.0067 U	0.0091 U	0.014 U/0.014 U	0.02 U	0.025 U	0.04 U
1,1-Dichloroethene	0.002 U	0.0033 U	0.0033 U	0.004 U	0.0067 U	0.0091 U	0.014 U/0.014 U	0.02 U	0.025 U	0.04 U
cis-1,2-Dichloroethene	0.002 U	0.0033 U	0.0011 J	0.018	0.13	0.31	0.570.56	0.56	0.6	0.86
trans-1,2-Dichloroethene	0.002 U	0.0033 U	0.0033 U	0.004 U	0.0067 U	0.0091 U	0.0041 J/0.0041 J	0.0061 J	0.025 U	0.012 J
Ethylbenzene	0.002 U	0.0033 U	0.0033 U	0.004 U	0.0067 U	0.0091 U	0.014 U/0.014 U	0.02 U	0.025 U	0.04 U
Methylene chloride	0.01 U	0.0033 U	0.0033 U	0.004 U	0.0067 U	0.0091 U	0.014 U/0.014 U	0.02 U	0.025 U	0.04 U
Tetrachloroethene	0.002 U	0.0033 U	0.0033 U	0.004 U	0.0067 U	0.0091 U	0.014 U/0.014 U	0.02 U	0.025 U	0.04 U
Toluene	0.002 U	0.0033 U	0.0033 U	0.004 U	0.0067 U	0.0091 U	0.014 U/0.014 U	0.02 U	0.025 U	0.04 U
1,1,1-Trichloroethane	0.002 U	0.0033 U	0.0033 U	0.004 U	0.0067 U	0.0091 U	0.014 U/0.014 U	0.02 U	0.025 U	0.04 U
Trichloroethene	0.002 U	0.0033 U	0.0033 U	0.004 U	0.0067 U	0.0091 U	0.014 U/0.014 U	0.02 U	0.025 U	0.04 U
Vinyl chloride	0.062 (AB)	0.079 (AB)	0.069 (AB)	0.093 (AB)	0.17 (AB)	0.14 (AB)	0.22 (AB)/0.21 (AB)	0.14 (AB)	0.13 (AB)	0.21 (AB)

MW 61	10/3/2011	10/10/2012	10/23/2013	10/21/2014	10/9/2015
	3d	3d	3d	3d	3d
Benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.0029 J	0.001 U	0.00042 J	0.00068 J	

MW96-13	11/14/2013	4/10/2014
	3s	3s
Benzene	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.00035 J	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U
Toluene	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U
Trichloroethene	0.001 U	0.0029 J
Vinyl chloride	0.001 U	0.001 U

MW 59	4/10/2013
	3s
Benzene	0.001 U
Chloroform (Trichloromethane)	0.001 U
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
trans-1,2-Dichloroethene	0.001 U
Ethylbenzene	0.001 U
Methylene chloride	0.001 U
Tetrachloroethene	0.001 U
Toluene	0.001 U
1,1,1-Trichloroethane	0.001 U
Trichloroethene	0.001 U
Vinyl chloride	0.001 U

MW 84	4/10/2013	11/14/2013	4/10/2014	10/12/2015
	3s	3s	3s	3s
Benzene	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.00027 J
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U

MW 42	4/18/2011	10/4/2011	5/14/2012	10/10/2012	4/9/2013	10/25/2013	4/14/2014	10/23/2014	4/29/2015	10/12/2015
	3s	3s	3s	3s	3s	3s	3s	3s	3s	3s
Benzene	0.17 U	0.2 U	0.25 U	0.17 U	0.2 U	0.2 U	0.17 U	0.2 U	0.2 U	0.17 U
Chloroform (Trichloromethane)	0.17 U	0.2 U	0.25 U	0.17 U	0.2 U	0.2 U	0.17 U	0.2 U	0.2 U	0.17 U
1,1-Dichloroethene	0.042 J	0.041 J	0.25 U	0.17 U	0.2 U	0.046 J	0.035 J	0.2 U	0.2 U	0.17 U
cis-1,2-Dichloroethene	6 (B)	5 (B)	5.4 (B)	5.3 (B)	5.2 (B)	5.2 (B)	5.6 (B)	4.3 (B)	4.1 (B)	4.4 (B)
trans-1,2-Dichloroethene	0.31	0.25	0.27	0.26	0.19 J	0.27	0.25	0.2	0.19 J	0.19
Ethylbenzene	0.17 U	0.2 U	0.25 U	0.17 U	0.2 U	0.2 U	0.17 U	0.2 U	0.2 U	0.17 U
Methylene chloride	0.83 U	0.2 U	0.25 U	0.5 U	0.2 U	0.2 U	0.17 U	0.2 U	0.2 U	0.17 U
Tetrachloroethene	0.17 U	0.2 U	0.25 U	0.17 U	0.2 U	0.2 U	0.17 U	0.2 U	0.2 U	0.17 U
Toluene	0.17 U	0.2 U	0.25 U	0.17 U	0.2 U	0.2 U	0.17 U	0.2 U	0.2 U	0.17 U
1,1,1-Trichloroethane	0.17 U	0.2 U	0.25 U	0.17 U	0.2 U	0.2 U	0.17 U	0.2 U	0.2 U	0.17 U
Trichloroethene	0.17 U	0.2 U	0.25 U	0.17 U	0.2 U	0.2 U	0.17 U	0.2 U	0.2 U	0.17 U
Vinyl chloride	0.17 (AB)	0.13 J (AB)	0.11 J (AB)	0.1 J (AB)	0.14 J (AB)	0.12 J (AB)	0.18 (AB)	0.12 J (AB)	0.13 J (AB)	0.14 J (AB)

MW 41	4/19/2011	10/4/2011	5/14/2012	10/10/2012	4/9/2013	10/25/2013	4/14/2014	10/23/2014	4/29/2015	10/12/2015
	3s	3s	3s	3s	3s	3s	3s	3s	3s	3s
Benzene	0.17 U	0.2 U	0.2 U	0.2 U	0.2 U	0.33 U	0.2 U	0.83 U	0.33 U	0.33 U/0.25 U
Chloroform (Trichloromethane)	0.17 U	0.2 U	0.2 U	0.2 U	0.2 U	0.33 U	0.2 U	0.83 U	0.33 U	0.33 U/0.25 U
1,1-Dichloroethene	0.17 U	0.2 U	0.2 U	0.2 U	0.2 U	0.33 U	0.2 U	0.83 U	0.33 U	0.33 U/0.25 U
cis-1,2-Dichloroethene	6.3 (B)	6.3 (B)	6 (B)	6.8 (B)	6.3 (B)	7.2 (B)	7.6 (B)	7.3 (B)	6.4 (B)	6.5 (B)/6.2 (B)
trans-1,2-Dichloroethene	0.14 J	0.14 J	0.13 J	0.14 J	0.11 J	0.16 J	0.13 J	0.83 U	0.2 J	0.12 J/0.11 J
Ethylbenzene	0.17 U	0.2 U	0.2 U	0.2 U	0.2 U	0.33 U	0.2 U	0.83 U	0.33 U	0.33 U/0.25 U
Methylene chloride	0.83 U	0.2 U	0.2 U	0.83 U	0.2 U	0.33 U	0.2 U	0.83 U	0.33 U	0.33 U/0.25 U
Tetrachloroethene	0.17 U	0.2 U	0.2 U	0.2 U	0.2 U	0.33 U	0.2 U	0.83 U	0.33 U	0.33 U/0.25 U
Toluene	0.17 U	0.2 U	0.2 U	0.2 U	0.2 U	0.33 U	0.2 U	0.83 U	0.33 U	0.33 U/0.25 U
1,1,1-Trichloroethane	0.17 U	0.2 U	0.2 U	0.2 U	0.2 U	0.33 U	0.2 U	0.83 U	0.33 U	0.33 U/0.25 U
Trichloroethene	0.17 U	0.2 U	0.2 U	0.2 U	0.2 U	0.33 U	0.2 U	0.83 U	0.33 U	0.33 U/0.25 U
Vinyl chloride	0.3 J (AB)	0.51 (AB)	0.61 (AB)	0.66 (AB)	0.61 (AB)	0.55 (AB)	0.73 (AB)	0.54 J (AB)	0.46 (AB)	0.39 (AB)/0.39 (AB)

MW 86	10/4/2011	10/11/2012	10/22/2013	10/22/2014	10/8/2015
	3d	3d	3d	3d	3d
Benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

MW 14	4/18/2011	10/5/2011	5/15/2012	10/15/2012	4/9/2013	10/25/2013	4/15/2014	10/24/2014	4/29/2015	10/12/2015
	3s	3s	3s	3s	3s	3s	3s	3s	3s	3s
Benzene	0.17 U	0.2 U	0.17 U	0.2 U	0.17 U/0.17 U	0.25 U/0.2 U	0.17 U/0.17 U	0.33 U	0.2 U/0.2 U	0.2 U
Chloroform (Trichloromethane)	0.17 U	0.2 U	0.17 U	0.2 U	0.17 U/0.17 U	0.25 U/0.2 U	0.17 U/0.17 U	0.33 U	0.2 U/0.2 U	0.2 U
1,1-Dichloroethene	0.17 U	0.2 U	0.17 U	0.2 U	0.17 U/0.17 U	0.049 J/0.2 U	0.039 J/0.036 J	0.33 U	0.2 U/0.2 U	0.2 U
cis-1,2-Dichloroethene	4.9 (B)	4.7 (B)	4.4 (B)	3.6 (B)/3.9 (B)	4.1 (B)/5 (B)	5.7 (B)/5.5 (B)	4.9 (B)	4.5 (B)/4.8 (B)	4.5 (B)/4.8 (B)	4.7 (B)
trans-1,2-Dichloroethene	0.17 U	0.2 U	0.17 U	0.2 U	0.17 U/0.17 U	0.25 U/0.2 U	0.17 U/0.17 U	0.33 U	0.2 U/0.2 U	0.2 U
Ethylbenzene	0.17 U	0.2 U	0.17 U	0.2 U	0.17 U/0.17 U	0.25 U/0.2 U	0.17 U/0.17 U	0.33 U	0.2 U/0.2 U	0.2 U
Methylene chloride	0.83 U	0.2 U	0.47 U	0.2 U	0.17 U/0.17 U	0.25 U/0.2 U	0.17 U/0.17 U	0.33 U	0.2 U/0.2 U	0.2 U
Tetrachloroethene	0.17 U	0.2 U	0.17 U	0.2 U	0.17 U/0.17 U	0.25 U/0.2 U	0.17 U/0.17 U	0.33 U	0.2 U/0.2 U	0.2 U
Toluene	0.17 U	0.2 U	0.17 U	0.2 U	0.17 U/0.17 U	0.25 U/0.2 U	0.17 U/0.17 U	0.33 U	0.2 U/0.2 U	0.2 U
1,1,1-Trichloroethane	0.17 U	0.2 U	0.17 U	0.2 U	0.17 U/0.17 U	0.25 U/0.2 U	0.17 U/0.17 U	0.33 U	0.2 U/0.2 U	0.2 U
Trichloroethene	0.17 U	0.2 U	0.17 U	0.2 U	0.17 U/0.17 U	0.25 U/0.2 U	0.17 U/0.17 U	0.33 U	0.2 U/0.2 U	0.2 U
Vinyl chloride	0.23 (AB)	0.19 J (AB)	0.2 (AB)	0.18 (AB)	0.15 J (AB)/0.19 (AB)	0.22 J (AB)/0.25 (AB)	0.25 (AB)/0.23 (AB)	0.14 J (AB)	0.15 J (AB)/0.15 J (AB)	0.14 J (AB)

MW 12	4/20/2011	10/5/2011	5/15/2012	10/11/2012	4/9/2013	10/23/2013	4/11/2014	10/24/2014	4/27/2015	10/9/2015
	3s	3s	3s	3s	3s	3s	3s	3s	3s	3s
Benzene	0.011 U	0.011 U	0.0091 U	0.0067 U	0.01 U	0.0077 U	0.0057 U	0.005 U/0.005 U	0.0057 U	0.005 U
Chloroform (Trichloromethane)	0.011 U	0.011 U	0.0091 U	0.0067 U	0.01 U	0.0077 U	0.0057 U	0.005 U/0.005 U	0.0057 U	0.005 U
1,1-Dichloroethene	0.011 U	0.011 U	0.0091 U	0.0067 U	0.01 U	0.0077 U	0.0057 U	0.005 U/0.005 U	0.0057 U	0.005 U
cis-1,2-Dichloroethene	0.29	0.24	0.24	0.2	0.21	0.24	0.21	0.16/0.15	0.13	0.08
trans-1,2-Dichloroethene	0.0031 J	0.0033 U	0.003 J	0.0046 J	0.0025 J	0.0039 J	0.0025 J	0.0022 J/0.002 J	0.0018 J	0.0016 J
Ethylbenzene	0.011 U	0.011 U	0.0091 U	0.0067 U	0.01 U	0.0077 U	0.0057 U	0.005 U/0.005 U	0.0057 U	0.005 U
Methylene chloride	0.056 U	0.011 U	0.0091 U	0.015 U	0.01 U	0.0077 U	0.0057 U	0.0042 J/0.005 U	0.0057 U	0.005 U
Tetrachloroethene	0.011 U	0.011 U	0.0091 U	0.0067 U	0.01 U	0.0077 U	0.0057 U	0.005 U/0.005 U	0.0057 U	0.005 U
Toluene	0.011 U	0.011 U	0.0091 U	0.0067 U	0.01 U	0.0077 U	0.0057 U	0.005 U/0.005 U	0.0057 U	0.005 U
1,1,1-Trichloroethane	0.011 U	0.011 U	0.0091 U	0.0067 U	0.01 U	0.0077 U	0.0057 U	0.005 U/0.005 U	0.0057 U	0.005 U
Trichloroethene	0.0098 J	0.0073 J	0.0058 J	0.004 J	0.0059 J	0.003 J	0.0017 J	0.0013 J/0.0012 J	0.0057 U	0.005 U
Vinyl chloride	0.011 U	0.0091 U	0.0067 U	0.01 U	0.0077 U	0.0057 U	0.005 U/0.005 U	0.0057 U	0.0057 U	0.005 U

MW 15	10/24/2013	10/23/2014	10/14/2015
	3s	3s	3s
Benzene	0.5 U	0.5 U	0.17 U
Chloroform (Trichloromethane)	0.5 U	0.5 U	0.17 U
1,1-Dichloroethene	0.5 U	0.5 U	0.17 U
cis-1,2-Dichloroethene	12 (B)	6.3 (B)	4.4 (B)
trans-1,2-Dichloroethene	0.11 J	0.5 U	0.17 U
Ethylbenzene	0.5 U	0.5 U	0.17 U
Methylene chloride	0.5 U	0.5 U	0.23 U
Tetrachloroethene	0.5 U	0.5 U	0.17 U
Toluene	0.5 U	0.5 U	0.17 U
1,1,1-Trichloroethane	0.96	0.8	0.38
Trichloroethene	8.3 (A)	5.5 (A)	3 (A)
Vinyl chloride	0.56 (AB)	0.5 U	0.094 J (AB)

MW 3	4/18/2011	10/5/2011	5/16/2012	10/15/2012	4/9/2013	10/24/2013	4/15/2014	10/23/2014	4/28/2015	10/14/2015
	3s	3s	3s	3s	3s	3s	3s	3s	3s	3s
Benzene	0.5 U	0.33 U	0.33 U	0.14 U	0.5 U	0.25 U/0.25 U	0.33 U	0.14 U	0.33 U	0.14 U
Chloroform (Trichloromethane)	0.5 U	0.33 U	0.33 U	0.14 U	0.5 U	0.25 U/0.25 U	0.33 U	0.14 U	0.33 U	0.14 U
1,1-Dichloroethene	0.17 U	0.13 J	0.12 J	0.059 J	0.19 J	0.25 U/0.25 U	0.097 J	0.14 U	0.33 U	0.14 U
cis-1,2-Dichloroethene	8.9 (B)	5.7 (B)	8.9 (B)	1.2 (B)	8.2 (B)	9.93/1	4.7 (B)	1	4.5 (B)	1.4 (B)
trans-1,2-Dichloroethene	0.5 U	0.33 U	0.33 U	0.14 U	0.5 U	0.25 U/0.25 U	0.33 U	0.14 U	0.33 U	0.14 U
Ethylbenzene	0.5 U	0.33 U	0.33 U	0.14 U	0.5 U	0.25 U/0.25 U	0.33 U	0.14 U	0.33 U	0.14 U
Methylene chloride	2.5 U	0.33 U	0.33 U	0.33 U	0.5 U	0.25 U/0.25 U	0.33 U	0.14 J	0.18 U	
Tetrachloroethene	0.5 U	0.33 U	0.33 U	0.14 U	0.5 U	0.25 U/0.25 U	0.33 U	0.14 U	0.33 U	0.14 U
Toluene	0.5 U	0.33 U	0.33 U	0.14 U	0.5 U	0.25 U/0.25 U	0.33 U	0.14 U	0.33 U	0.14 U
1,1,1-Trichloroethane	0.74	0.61	0.68	0.5	0.59	0.52/0.57	0.49	0.44	0.42	0.36
Trichloroethene	14 (A)	10 (A)	12 J (A)	4 (A)	13 (A)	4.8 (A)/5.3 (A)	8.6 (A)	4.3 (A)	8.3 (A)	5.1 (A)
Vinyl chloride	0.35 J (AB)	0.12 J (AB)	0.33 U	0.29 (AB)	0.5 U	0.077 J (AB)/0.082 J (AB)	0.33 U	0.055 J (AB)	0.33 U	0.062 J (AB)

MW 31R	4/18/2011	10/4/2011	5/15/2012	10/15/2012	4/9/2013	10/24/2013	4/15/2014	10/27/2014	4/28/2015	10/14/2015
	1	1	1	1	1	1	1	1	1	1
Benzene	0.2 U	0.2 U	0.25 U	0.25 U	0.25 U	0.25 U	0.5 U	0.25 U	0.5 U	0.25 U
Chloroform (Trichloromethane)	0.2 U	0.2 U	0.25 U	0.25 U	0.25 U	0.25 U	0.5 U	0.25 U	0.5 U	0.25 U
1,1-Dichloroethene	0.2 U	0.2 U	0.25 U	0.25 U	0.25 U	0.25 U	0.5 U	0.25 U	0.5 U	0.25 U
cis-1,2-Dichloroethene	6.2 (B)	5.1 (B)	8.8 (B)	6.2 (B)	8.3 (B)	7.2 (B)	12 (B)	7.3 (B)	11 (B)	6.6 (B)
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.25 U	0.25 U	0.25 U	0.25 U	0.5 U	0.25 U	0.5 U	0.25 U
Ethylbenzene	0.35	0.51	0.75	0.58	0.76	0.62	0.61	0.53	0.67	0.41
Methylene chloride	1 U	0.2 U	0.25 U	0.53 U	0.25 U	0.25 U	0.5 U	0.25 U	0.5 U	0.25 U
Tetrachloroethene	0.2 U	0.2 U	0.25 U	0.25 U	0.25 U	0.25 U	0.5 U	0.25 U	0.5 U	0.25 U
Toluene	1.7	1.9	2.9	1.9	2.1	1.9	1.6	1.3	1.9	0.79
1,1,1-Trichloroethane	0.11 J	0.088 J	0.25 U	0.082 J	0.07 J	0.074 J	0.5 U	0.25 U	0.5 U	0.25 U
Trichloroethene	0.34 (A)	0.32 (A)	0.25 U	0.078 J (A)	0.057 J (A)	0.15 J (A)	0.12 J (A)	0.04 J (A)	0.5 U	0.25 U
Vinyl chloride	0.64 (AB)	1.2 (AB)	2.3 (AB)	1.3 (AB)	1.3 (AB)	1.6 (AB)	1.1 (AB)	1 (AB)	0.63 (AB)	1.7 (AB)

MW 8	4/18/2011	10/5/2011	5/15/2012	10/15/2012	4/9/2013	10/24/2013	4/15/2014	10/23/2014	4/28/2015	10/14/2015
	3s	3s	3s	3s	3s	3s	3s	3s	3s	3s
Benzene	0.25 U	0.25 U	0.17 U/0.17 U	0.13 U	0.17 U	0.17 U	0.25 U	0.25 U	0.17 U	0.2 U
Chloroform (Trichloromethane)	0.25 U	0.25 U	0.17 U/0.17 U	0.13 U	0.17 U	0.17 U	0.25 U	0.25 U	0.17 U	0.2 U
1,1-Dichloroethene	0.25 U	0.25 U	0.17 U/0.17 U	0.13 U	0.17 U	0.17 U	0.25 U	0.25 U	0.17 U	0.2 U
cis-1,2-Dichloroethene	8.5 (B)	7.1 (B)	5.1 (

Pond North	4/20/2011 WS	7/28/2011 WS	10/6/2011 WS	5/16/2012 WS	8/2/2012 WS	10/16/2012 WS	4/12/2013 WS	7/17/2013 WS	10/29/2013 WS	4/16/2014 WS	7/17/2014 WS	10/29/2014 WS	4/27/2015 WS	7/10/2015 WS	10/20/2015 WS
Benzene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.0029 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U
Chloroform (Trichloromethane)	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.0029 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U
1,1-Dichloroethene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.0029 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U
cis-1,2-Dichloroethene	0.026	0.001 U/0.001 U	0.0089	0.0220/0.019	0.00140/0.0015	0.035	0.013	0.032/0.032	0.0063 U	0.11 [A]	0.25 [A]	0.31 [A]	0.26 [A]	0.093 [A]	0.035
trans-1,2-Dichloroethene	0.0012	0.001 U/0.001 U	0.00024 J	0.00065 J/0.00052 J	0.001 U/0.001 U	0.0011 J	0.00049 J	0.001/0.0011	0.00025 J	0.0028 J	0.005 J	0.015	0.014	0.0031 J	0.00083 J
Ethylbenzene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.0029 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U
Methylene chloride	0.005 U	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.0084 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U
Tetrachloroethene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.0029 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U
Toluene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.0029 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U
1,1,1-Trichloroethane	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.0029 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U
Trichloroethene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.0029 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0033 U	0.01 U	0.008 U	0.008 U	0.0033 U	0.0014 U
Vinyl chloride	0.0043 [ABDE]	0.0088 [ABDE]/0.0067 [ABDE]	0.012 [ABDE]	0.014 [ABDE]/0.014 [ABDE]	0.011 [ABDE]/0.012 [ABDE]	0.012 [ABDE]	0.0081 [ABDE]	0.014 [ABDE]/0.014 [ABDE]	0.0033 [ABD]	0.089 [ABDE]	0.041 [ABCDE]	0.019 [ABDE]	0.0091 [ABDE]	0.0077 [ABDE]	0.0047 [ABDE]

MW 85	4/20/2011 3d	10/6/2011 3d	5/16/2012 3d	10/16/2012 3d	4/12/2013 3d	10/29/2013 3d	4/16/2014 3d	10/29/2014 3d	4/27/2015 3d	10/19/2015 3d
Benzene	0.02 U	0.029 U	0.025 U	0.17 U	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U
Chloroform (Trichloromethane)	0.02 U	0.029 U	0.025 U	0.17 U	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U
1,1-Dichloroethene	0.02 U	0.029 U	0.025 U	0.17 U	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U
cis-1,2-Dichloroethene	0.18 [A]	0.59 [A]	0.66 [A]	4.6 [ADE]	1.9 [ADE]	4.6 [ADE]	7.4 [ADE]	7.5 [ADE]	9.5 [ADE]	10 [ADE]
trans-1,2-Dichloroethene	0.02 U	0.029 U	0.0072 J	0.096 J	0.03 J	0.084	0.15 J [A]	0.16 J [A]	0.2 J [A]	0.22 J [A]
Ethylbenzene	0.02 U	0.029 U	0.025 U	0.17 U	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U
Methylene chloride	0.1 U	0.029 U	0.025 U	0.4 U	0.067 U	0.067 U	0.25 U	0.41 U	0.5 U	0.33 U
Tetrachloroethene	0.02 U	0.029 U	0.025 U	0.17 U	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U
Toluene	0.02 U	0.029 U	0.025 U	0.17 U	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U
1,1,1-Trichloroethane	0.02 U	0.029 U	0.025 U	0.17 U	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U
Trichloroethene	0.02 U	0.029 U	0.025 U	0.17 U	0.067 U	0.067 U	0.25 U	0.25 U	0.5 U	0.33 U
Vinyl chloride	0.45 [ABCDE]	0.51 [ABCDE]	0.59 [ABCDE]	0.77 [ABCDE]	0.69 [ABCDE]	0.64 [ABCDE]	0.84 [ABCDE]	0.8 [ABCDE]	0.37 J [ABCDE]	0.44 [ABCDE]

MW-4	4/20/2011 3d	10/6/2011 3d	5/16/2012 3d	10/16/2012 3d	4/12/2013 3d	10/29/2013 3d	4/16/2014 3d	10/29/2014 3d	4/27/2015 3d	10/19/2015 3d
Benzene	0.25 U/0.33 U	0.42 U	0.33 U	0.5 U	0.33 U	0.17 U	0.5 U/0.5 U	0.5 U	0.5 U	0.33 U
Chloroform (Trichloromethane)	0.25 U/0.33 U	0.42 U	0.33 U	0.5 U	0.33 U	0.17 U	0.5 U/0.5 U	0.5 U	0.5 U	0.33 U
1,1-Dichloroethene	0.058 J (A)/0.068 J (A)	0.089 J (A)	0.083 J (A)	0.5 U	0.076 J (A)	0.098 J (A)	0.5 U/0.5 U	0.5 U	0.5 U	0.33 U
cis-1,2-Dichloroethene	8.8 (ADE)/8.7 (ADE)	11 (ADE)	11 (ADE)	14 (ADE)	12 (ADE)	14 (ADE)	13 (ADE)/13 (ADE)	12 (ADE)	10 (ADE)	12 (ADE)
trans-1,2-Dichloroethene	0.28 (A)/0.26 J (A)	0.32 J (A)	0.31 J (A)	0.39 J (A)	0.36 (A)	0.32 (A)	0.29 J (A)/0.31 J (A)	0.31 J (A)	0.25 J (A)	0.33 (A)
Ethylbenzene	0.25 U/0.33 U	0.42 U	0.33 U	0.5 U	0.33 U	0.17 U	0.5 U/0.5 U	0.5 U	0.5 U	0.33 U
Methylene chloride	1.2 U/1.7 U	0.42 U	0.33 U	0.54 U	0.33 U	0.17 U	0.5 U/0.5 U	0.88 U	0.5 U	0.33 U
Tetrachloroethene	0.25 U/0.33 U	0.42 U	0.33 U	0.5 U	0.33 U	0.17 U	0.5 U/0.5 U	0.5 U	0.5 U	0.33 U
Toluene	0.25 U/0.33 U	0.42 U	0.33 U	0.5 U	0.33 U	0.17 U	0.5 U/0.5 U	0.5 U	0.5 U	0.33 U
1,1,1-Trichloroethane	0.25 U/0.33 U	0.42 U	0.33 U	0.16 J	0.086 J	0.14 J	0.5 U/0.5 U	0.13 J	0.5 U	0.33 U
Trichloroethene	0.25 U/0.33 U	0.092 J (ABC)	0.25 J (ABCD)	0.99 (ABCD)	0.74 (ABCD)	1.5 (ABCD)	0.47 J (ABCD)/0.52 (ABCD)	1.7 (ABCD)	0.5 (ABCD)	1 (ABCD)
Vinyl chloride	0.77 (ABCDE)/0.73 (ABCDE)	0.72 (ABCDE)	0.71 (ABCDE)	0.38 J (ABCDE)	0.44 (ABCDE)	0.43 (ABCDE)	0.57 (ABCDE)/0.58 (ABCDE)	0.41 J (ABCDE)	0.42 J (ABCDE)	0.47 (ABCDE)

MW 58	10/6/2011 3d	10/16/2012 3d	10/29/2013 3d	10/29/2014 3d	10/20/2015 3d
Benzene	0.008 U	0.005 U/0.0057 U	0.002 U	0.0033 U	0.0057 U/0.005 U
Chloroform (Trichloromethane)	0.008 U	0.005 U/0.0057 U	0.002 U	0.0033 U	0.0057 U/0.005 U
1,1-Dichloroethene	0.008 U	0.005 U/0.0057 U	0.002 U	0.0033 U	0.0057 U/0.005 U
cis-1,2-Dichloroethene	0.008 U	0.005 U/0.0057 U	0.002 U	0.0033 U	0.028/0.028
trans-1,2-Dichloroethene	0.008 U	0.005 U/0.0057 U	0.002 U	0.0033 U	0.0057 U/0.005 U
Ethylbenzene	0.008 U	0.005 U/0.0057 U	0.002 U	0.0033 U	0.0057 U/0.005 U
Methylene chloride	0.008 U	0.0093 U/0.013 U	0.002 U	0.0042 U	0.0057 U/0.005 U
Tetrachloroethene	0.008 U	0.005 U/0.0057 U	0.002 U	0.0033 U	0.0057 U/0.005 U
Toluene	0.008 U	0.005 U/0.0057 U	0.002 U	0.0033 U	0.0057 U/0.005 U
1,1,1-Trichloroethane	0.008 U	0.005 U/0.0057 U	0.002 U	0.0033 U	0.0057 U/0.005 U
Trichloroethene	0.008 U	0.005 U/0.0057 U	0.002 U	0.0033 U	0.0057 U/0.005 U
Vinyl chloride	0.12 [ABCDE]	0.15 [ABCDE]/0.14 [ABCDE]	0.11 [ABCDE]	0.098 [ABCDE]	0.16 [ABCDE]/0.15 [ABCDE]

MW 46	10/5/2011 3s	10/17/2012 3s	10/25/2013 3s	10/22/2014 3s	10/9/2015 2s
Benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.003	0.001 U	0.0002 J/0.00021 J	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U

MW 49	4/19/2011 3s	10/5/2011 3s	5/15/2012 3s	10/17/2012 3s	4/10/2013 3s	10/25/2013 3s	4/14/2014 3s	10/27/2014 3s	4/28/2015 3s	10/13/2015 3s
Benzene	0.017 U	0.025 U	0.025 U	0.033 U	0.033 U	0.033 U	0.001 U	0.033 U	0.033 U	0.04 U
Chloroform (Trichloromethane)	0.017 U	0.025 U	0.025 U	0.033 U	0.033 U	0.033 U	0.001 U	0.033 U	0.033 U	0.04 U
1,1-Dichloroethene	0.017 U	0.025 U	0.025 U	0.033 U	0.033 U	0.033 U	0.0014	0.033 U	0.033 U	0.04 U
cis-1,2-Dichloroethene	0.37 [A]	0.53 [A]	0.66 [A]	0.78 [A]	0.74 [A]	0.9 [A]	0.001 U	0.78 [A]	0.71 [A]	0.86 [A]
trans-1,2-Dichloroethene	0.0078 J	0.011 J	0.016 J	0.016 J	0.032 J	0.032 J	0.019	0.02 J	0.019 J	0.024 J
Ethylbenzene	0.017 U	0.025 U	0.025 U	0.033 U	0.033 U	0.033 U	0.001 U	0.033 U	0.033 U	0.04 U
Methylene chloride	0.083 U	0.025 U	0.025 U	0.076 U	0.033 U	0.033 U	0.001 U	0.033 U	0.033 U	0.04 U
Tetrachloroethene	0.017 U	0.025 U	0.025 U	0.033 U	0.033 U	0.033 U	0.001 U	0.033 U	0.033 U	0.04 U
Toluene	0.017 U	0.025 U	0.025 U	0.033 U	0.033 U	0.033 U	0.001 U	0.033 U	0.033 U	0.04 U
1,1,1-Trichloroethane	0.017 U	0.025 U	0.025 U	0.033 U	0.033 U	0.033 U	0.00053 J	0.033 U	0.033 U	0.04 U
Trichloroethene	0.017 U	0.025 U	0.025 U	0.033 U	0.033 U	0.033 U	0.00085 J	0.033 U	0.033 U	0.04 U
Vinyl chloride	0.022 [ABDE]	0.025 [ABDE]	0.025 [ABDE]	0.03 J [ABDE]	0.027 J [ABDE]	0.033 [ABDE]	0.013 [ABDE]	0.013 J [ABDE]	0.033 U	0.012 J [ABDE]

MW89-11	12/8/2011 3s	10/17/2012 3s	4/12/2013 3s	10/28/2013 3s	4/16/2014 3s	10/28/2014 3s	4/28/2015 3s	10/15/2015 3s
Benzene	0.00023 J/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.00055 J	0.0003 J	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.00016 J/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U/0.001 U	0.00027 J	0.001 U/0.001 U	0.001 U	0.00068 J	0.001 U	0.001 U	0.0011
Trichloroethene	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.00032 J	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U/0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

MW 37	10/5/2011 3s	10/17/2012 3s	10/25/2013 3s	10/22/2014 3s	10/9/2015 2s
Benzene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U/0.001 U	0.0011	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U

MW 56	10/6/2011 3d	10/16/2012 3d	10/29/2013 3d	10/29/2014 3d	10/19/2015 3d
Benzene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.003	0.001 U	0.0002 J/0.00021 J	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U

MW 57	10/6/2011 3d	10/16/2012 3d	10/29/2013 3d	10/29/2014 3d	10/19/2015 3d
Benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.0042 [ABDE]	0.0062 [ABDE]	0.013 [ABDE]	0.0037 [ABD]

Pond Intake	4/20/2011 WS	7/28/2011 WS	10/6/2011 WS	5/16/2012 WS	8/2/2012 WS	10/16/2012 WS	4/12/2013 WS	7/17/2013 WS	10/29/2013 WS	4/16/2014 WS	7/17/2014 WS	10/29/2014 WS	4/27/2015 WS	7/10/2015 WS	10/20/2015 WS
Benzene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.004/0.004	0.0063	0.00072 J	0.0026	0.0066	0.017	0.0068 U	0.018	0.029/0.027	0.022	0.033	0.1 (A)/0.11 (A)	0.037
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.00021 J	0.001 U	0.001 U	0.00023 J	0.00062 J	0.0002 J	0.00064 J	0.00073 J/0.00067 J	0.00066 J	0.0011 J	0.0034/0.0035 J	0.00085 J
Ethylbenzene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U
Methylene chloride	0.005 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.0013 U	0.0033 U/0.004 U	0.001 U
Vinyl chloride	0.0019 (D)	0.0042 [ABDE]	0.0022 [ABD]/0.0021 [AD]	0.0038 [ABD]	0.0048 [ABDE]	0.00067 J	0.0046 [ABDE]	0.0048 [ABDE]	0.0022 [ABD]	0.0069 [ABDE]	0.0049 [ABDE]/0.0048 [ABDE]	0.0039 [ABDE]	0.0053 [ABDE]	0.008 [ABDE]/0.0079 [ABDE]	0.0065 [ABDE]

MW97-14	11/24/2014 3d	10/20/2015 3d
Benzene	0.001 U/0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U/0.001 U	0.001 U
1,1-Dichloroethene	0.001 U/0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U/0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U/0.001 U	0.001 U
Ethylbenzene	0.001 U/0.001 U	0.001 U
Methylene chloride	0.001 U/0.001 U	0.001 U
Tetrachloroethene	0.001 U/0.001 U	0.001 U
Toluene	0.001 U/0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U/0.001 U	0.001 U
Trichloroethene	0.001 U/0.001 U	0.001 U
Vinyl chloride	0.001 U/0.001 U	0.001 U

MW-7	10/29/2014 3d
Benzene	0.001 U
Chloroform (Trichloromethane)	0.001 U
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
trans-1,2-Dichloroethene	0.001 U
Ethylbenzene	0.001 U
Methylene chloride	0.001 U
Tetrachloroethene	0.001 U
Toluene	0.001 U
1,1,1-Trichloroethane	0.001 U
Trichloroethene	0.001 U
Vinyl chloride	0.001 U

MW-1	10/6/2011 3d	10/16/2012 3d	10/29/2013 3d	10/29/2014 3d	10/19/2015 3d
Benzene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U	0.001 U

LEGEND

- SITE BOUNDARY
- LOT LINE
- RAILROAD
- FENCE LINE
- BUILDING
- MONITORING WELL LOCATION

0 100 300ft

MW 58	10/29/2010 3d
Benzene	0.001 U
Chloroform (Trichloromethane)	0.001 U
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
trans-1,2-Dichloroethene	0.001 U
Ethylbenzene	0.001 U
Methylene chloride	0.005 U
Tetrachloroethene	0.001 U
Toluene	0.001 U
1,1,1-Trichloroethane	0.001 U
Trichloroethene	0.001 U
Vinyl chloride	0.158 [ABCDE]

- SAMPLE LOCATION
- SAMPLE DATE
- GEOLOGIC UNIT
- CONCENTRATION (mg/L)
- PARAMETER

WS - SURFACE WATER
1 - UNIT 1, PERCHED GROUNDWATER IN FILL
3S - UNIT 3, SHALLOW GROUNDWATER IN UPPERMOST AQUIFER
3I - UNIT 3, INTERMEDIATE GROUNDWATER IN UPPERMOST AQUIFER
3D - UNIT 3, DEEP GROUNDWATER IN UPPERMOST AQUIFER
B - BEDROCK, GROUNDWATER IN BEDROCK AQUIFER

0.34 [A] EXCEEDANCE OF ONE OR MORE SCREENING CRITERIA

SAMPLE LOCATIONS INCLUDED IN GMP

SCREENING CRITERIA

CHEMICAL NAME	A	B	C	D	E
Benzene	5.00E-03	2.40E-02	1.20E-01	-	-
Chloroform (Trichloromethane)	8.00E-02	-	-	-	-
1,1-Dichloroethene	7.00E-03	3.00E-01	1.30E+00	2.41E+01	5.10E+00
cis-1,2-Dichloroethene	7.00E-02	-	-	1.00E+00	1.00E+00
trans-1,2-Dichloroethene	1.00E-01	-	-	1.00E+01	2.00E+00
Ethylbenzene	7.00E-01	-	-	-	-
Methylene chloride	5.00E-03	-	-	-	-
Tetrachloroethene	5.00E-03	1.10E-02	5.50E-02	-	-
Toluene	1.00E+00	-	-	-	-
1,1,1-Trichloroethane	2.00E-01	1.30E+01	5.40E+01	8.18E+02	2.90E+01
Trichloroethene	5.00E-03	9.10E-03	3.80E-02	1.27E-01	2.90E+01
Vinyl chloride	2.00E-03	2.00E-03	3.50E-02	8.48E-04	3.80E-03

A IDEM Residential Tap Water
B IDEM Vapor Exp Residential Criteria
C IDEM Vapor Exp Comm/Ind Criteria
D RCR Site-Specific Closure Level (SSCLRCR)
E CITW Site-Specific Closure Level (SSCLCITW)

NOTES:
1. Parameters that do not appear in the databox for a particular sample were not analyzed.
2. Sample results rounded to three decimal places.
3. Screening criteria and sample results are compared to two significant digits. Results equal to screening criteria are not highlighted as exceedances.
4. RCR - Recreator (Resident Swimming Pool)
5. CITW - Commercial/Industrial Tap Water Use
6. U - Not detect at the associated reporting limit
7. J - Estimated concentration

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, IN

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

2015 ANNUAL MONITORING REPORT

OFF-SITE VOC GROUNDWATER/SURFACE WATER RESULTS (2011-2015)

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
R. CATALLO	R. CATALLO	DECEMBER 2015	
Scale: 1"=300'	Project №: 017302-T07	Report №: 045	Drawing №: 9

017302-T07(045)GN-SC008 JAN 5, 2016

0 300 600ft

MW 51 0.16
MW 79 0.0415
MW 42 0.085
MW 68 1.35
MW 14 0.1
MW 3 5.1
MW 15 3.4
MW 40 0.26
MW 46 0.0005
MW 8 0.42
MW 45 0.02
MW 89-11 0.0005
MW 37 0.0005
MW 36
MW 56 0.0005
MW 57 0.0005
MW 85 0.165
MW-4 1
MW 88 0.0005
MW 86 0.0005
MW 80 0.00085
MW 65 0.001
MW 64 0.005
MW 66 0.02
MW 58 0.00535
MW-2 0.0005
MW 26
MW 27
MW 87
MW-3
MW-84
MW-7
MW-6
MW-5
PW-1
PW-2
PW-4
MW-1
MW97-14
Pond Gabion
Pond North
Pond Intake

LEGEND

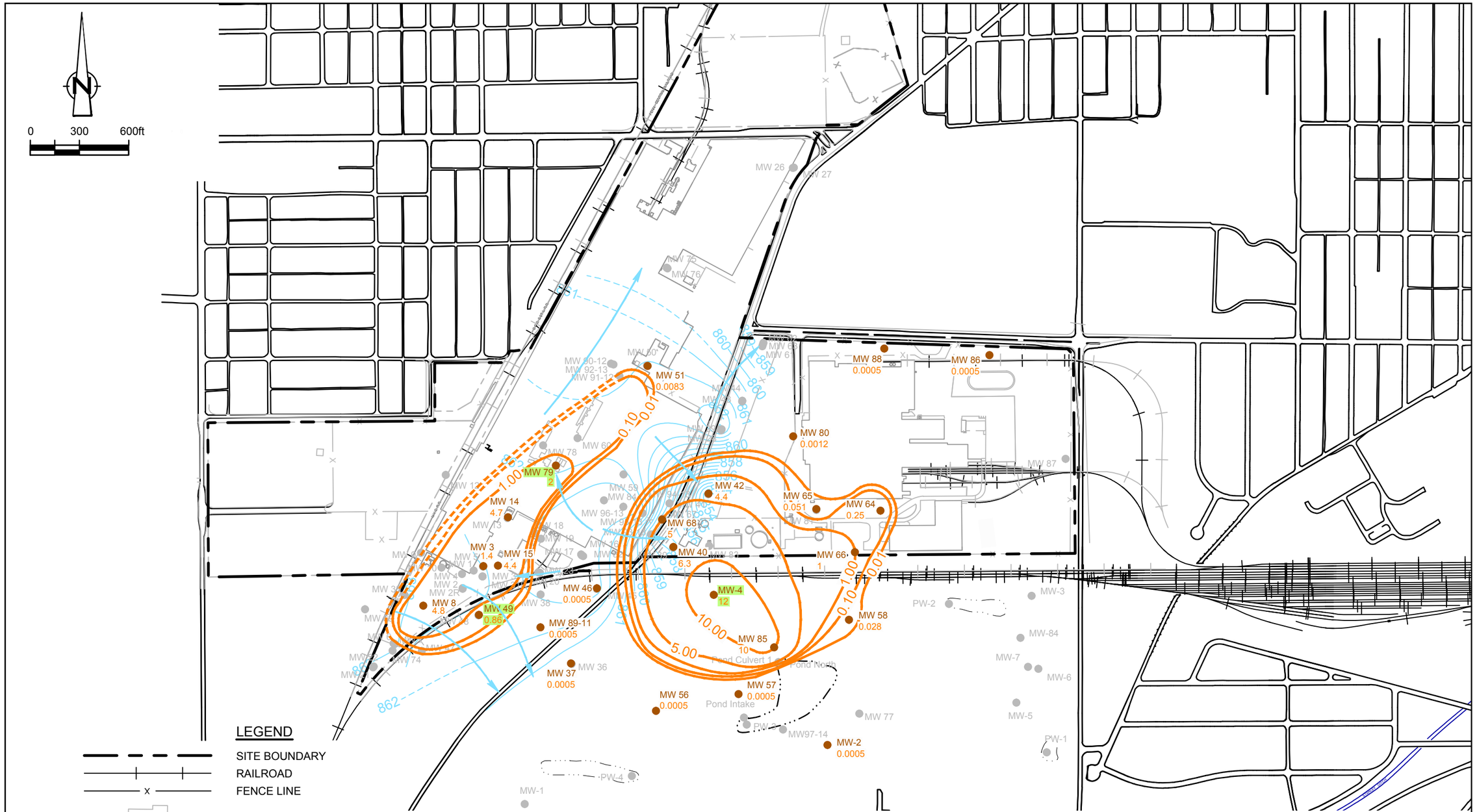
SITE BOUNDARY
RAILROAD
FENCE LINE
BUILDING
MONITORING WELL LOCATION
1.00 ISOCONCENTRATION CONTOUR (mg/L)
862 GROUNDWATER CONTOUR (FEET NAVD 88)
INFERRED DIRECTION OF GROUNDWATER FLOW

NOTES: NON DETECT RESULTS ARE SHOWN AS HALF THE ASSOCIATED REPORT LIMIT

figure 10

CONCENTRATION OF TRICHLOROETHENE IN GROUNDWATER - UNIT 3
2015 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
Revitalizing Auto Communities Environmental Response Trust

017302-T07(045)GN-SC009 JAN 28, 2016



NOTES: NON DETECT RESULTS ARE SHOWN AS HALF THE ASSOCIATED REPORT LIMIT

figure 11

CONCENTRATION OF CIS-1,2-DICHLOROETHENE IN GROUNDWATER - UNIT 3
2015 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
Revitalizing Auto Communities Environmental Response Trust

017302-T07(045)GN-SC010 JAN 28, 2016

0 300 600ft

LEGEND

SITE BOUNDARY
RAILROAD
FENCE LINE
BUILDING
MONITORING WELL LOCATION
MONITORING WELL EXHIBITS AN INCREASING CONCENTRATION TREND
1.00 ISOCONCENTRATION CONTOUR (mg/L)
862 GROUNDWATER CONTOUR (FEET NAVD 88)
INFERRED DIRECTION OF GROUNDWATER FLOW

NOTES: NON DETECT RESULTS ARE SHOWN AS HALF THE ASSOCIATED REPORT LIMIT

figure 12

CONCENTRATION OF VINYL CHLORIDE IN GROUNDWATER - UNIT 3
2015 ANNUAL MONITORING REPORT
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, INDIANA
Revitalizing Auto Communities Environmental Response Trust

017302-T07(045)GN-SC011 JAN 28, 2016

MW 15	10/24/2013 3s	10/23/2014 3s	10/14/2015 3s
fparam			
Dissolved oxygen (DO), field	0.05	0.14	0.09
Ferrous iron	0.0	0	0.5
Oxidation reduction potential (ORP), field	-27	95	-22.2
pH, field	7.14	6.74	7.05
Gas			
Ethane	0.0068	0.0097	0.0074
Ethene	0.013	0.011	0.0019
Methane	0.026	0.019	0.013
Wet			
Alkalinity, bicarbonate	390	350 B	390
Alkalinity, carbonate	5.0 U	5.0 U	4.2 J
Chloride	42	30	15
Dissolved organic carbon (DOC)	4.3	2.8	5.5
Hardness	-	-	400
Hardness, carbonate	430	440	-
Nitrate (as N)	0.10 UJ	0.10 U	0.10 U
Nitrite (as N)	0.10 UJ	0.10 U	0.10 U
Sulfate	100 J	90	76
Sulfide	3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	4.4	2.2	2.5

MW 79	10/28/2014 3s	10/13/2015 3s
fparam		
Dissolved oxygen (DO), field	0.27	0.10
Ferrous iron	0.5	2.5
Oxidation reduction potential (ORP), field	149	-70.4
pH, field	4.07	7.06
Gas		
Ethane	0.00025 J/0.00023 J	0.0005 U
Ethene	0.0023/0.0022	0.0015
Methane	0.0074/0.00078 HB	0.0054
Wet		
Alkalinity, bicarbonate	320 B/330 B	380
Alkalinity, carbonate	5.0 UI/5.0 U	5.0 U
Chloride	45/46	41
Dissolved organic carbon (DOC)	0.85 J/0.86 J	1.6
Hardness	-	410
Hardness, carbonate	440/440	-
Nitrate (as N)	0.10 UI/0.10 U	0.10 U
Nitrite (as N)	0.10 UH/0.10 UH	0.10 U
Sulfate	74/74	100
Sulfide	3.0 UI/3.0 U	3.0 U
Total organic carbon (TOC)	0.82 J/0.76 J	1.4

MW 84	11/14/2013 3s	4/10/2014 3s
fparam		
Dissolved oxygen (DO), field	0.31	0.18
Ferrous iron	-	0
Oxidation reduction potential (ORP), field	-39	163
pH, field	7.35	4.6
Gas		
Ethane	0.0005 U	0.0005 U
Ethene	0.0005 U	0.0005 U
Methane	0.0005 U	0.0028
Wet		
Alkalinity, bicarbonate	300	340
Alkalinity, carbonate	5.0 U	5.0 U
Chloride	220	210 J
Dissolved organic carbon (DOC)	1.7	2.0
Hardness, carbonate	550	480
Nitrate (as N)	0.10 U	0.10 U
Nitrite (as N)	0.10 U	0.10 U
Sulfate	99	91 J
Sulfide	6.8 J	3.0 U
Total organic carbon (TOC)	1.4	1.8

MW96-13	11/14/2013 3s	4/10/2014 3s
fparam		
Dissolved oxygen (DO), field	0.32	0.29
Ferrous iron	-	0
Oxidation reduction potential (ORP), field	-23	86
pH, field	7.44	6.01
Gas		
Ethane	0.00046 J	0.0005 U
Ethene	0.0005 U	0.0005 U
Methane	0.0024	0.0005 U
Wet		
Alkalinity, bicarbonate	240	270
Alkalinity, carbonate	5.0 U	5.0 U
Chloride	56	46
Dissolved organic carbon (DOC)	2.1	5.2
Hardness, carbonate	400	330
Nitrate (as N)	2.8	1.9
Nitrite (as N)	0.10 U	0.10 UI/0.10 U
Sulfate	110	77 J
Sulfide	R	3.0 U
Total organic carbon (TOC)	2.2	1.4

MW95-13	11/13/2013 3s	4/10/2014 3s
fparam		
Dissolved oxygen (DO), field	1.58	0.28
Ferrous iron	-	1.5
Oxidation reduction potential (ORP), field	64	-82
pH, field	7.45	6.6
Gas		
Ethane	0.00023 J	0.0005 U/0.0005 U
Ethene	0.0005 U	0.0005 U/0.0005 U
Methane	0.0041	0.0061/0.0062
Wet		
Alkalinity, bicarbonate	300	330/330
Alkalinity, carbonate	5.0 U	5.0 UI/5.0 U
Chloride	170	160/160
Dissolved organic carbon (DOC)	2.1	1.1/1.1
Hardness, carbonate	470	430/430
Nitrate (as N)	0.10 U	0.10 UI/0.10 U
Nitrite (as N)	0.10 U	0.10 UI/0.10 U
Sulfate	56	59 J/60 J
Sulfide	3.0 U	3.0 UI/3.0 U
Total organic carbon (TOC)	1.5	1.3/1.3

MW94-13	11/13/2013 3s	4/10/2014 3s
fparam		
Dissolved oxygen (DO), field	0.19	0.22
Ferrous iron	-	2
Oxidation reduction potential (ORP), field	-100	-8
pH, field	7.24	6.21
Gas		
Ethane	0.00022 J	0.00031 J
Ethene	0.0015	0.0043
Methane	0.0091	0.016
Wet		
Alkalinity, bicarbonate	310	340
Alkalinity, carbonate	5.0 U	5.0 U
Chloride	51	46
Dissolved organic carbon (DOC)	2.1	1.9
Hardness, carbonate	490	430
Nitrate (as N)	0.10 U	0.10 U
Nitrite (as N)	0.10 U	0.10 U
Sulfate	84	100 J
Sulfide	3.0 U	3.0 U
Total organic carbon (TOC)	1.7	1.9

MW 68	11/14/2013 3s	4/10/2014 3s	10/23/2014 3s	10/13/2015 3s
fparam				
Dissolved oxygen (DO), field	0.16	3.8	0.96	0.07
Ferrous iron	-	1	1	2.0
Oxidation reduction potential (ORP), field	-99	-49	153	-77.1
pH, field	7.38	6.57	4.83	7.07
Gas				
Ethane	0.00022 J/0.0005 U	0.0005 U	0.0005 U	0.0005 U/0.0005 U
Ethene	0.0044/0.0046	0.0056	0.0015	0.0016/0.00099
Methane	0.026/0.025	0.027	0.017	0.011/0.011
Wet				
Alkalinity, bicarbonate	270/280	340	330 B	370/370
Alkalinity, carbonate	5.0 UI/5.0 U	5.0 U	5.0 U	5.0 UI/5.0 U
Chloride	51/51	49	43	34/34
Dissolved organic carbon (DOC)	2.0/2.1	2.3	1.2	1.9/1.9
Hardness	-	-	-	400/400
Hardness, carbonate	430/430	410	400	-
Nitrate (as N)	0.10 UI/0.10 U	0.10 U	0.10 U	0.10 UI/0.10 U
Nitrite (as N)	0.10 UI/0.10 U	0.10 U	0.10 U	0.10 UI/0.10 U
Sulfate	74/74	79 J	72	68/69
Sulfide	R/R	3.0 U	3.0 U	3.0 UI/3.0 U
Total organic carbon (TOC)	1.9/2.0	2.1	1.4	2.9/4.3

MW 3	10/24/2013 3s	10/23/2014 3s	10/14/2015 3s
fparam			
Dissolved oxygen (DO), field	0.33	0.47	0.12
Ferrous iron	0.0	0	0.0
Oxidation reduction potential (ORP), field	79	162	-22.5
pH, field	7.13	7.15	7.10
Gas			
Ethane	0.0018/0.0019	0.0022	0.0016
Ethene	0.0041/0.0043	0.0046	0.0024
Methane	0.018/0.018	0.023	0.018
Wet			
Alkalinity, bicarbonate	330/320	310 B	370
Alkalinity, carbonate	5.0 UI/5.0 U	5.0 U	5.0 U
Chloride	20/20	12	8.8
Dissolved organic carbon (DOC)	5.3/5.1	3.7	4.0
Hardness	-	-	390
Hardness, carbonate	400/400	350	-
Nitrate (as N)	3.5 J/3.6 J	2.6	1.7
Nitrite (as N)	0.38 J/0.38 J	0.17	0.24
Sulfate	100/100	73	67
Sulfide	3.0 UI/3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	5.1/5.0	3.8	4.0

MW-4	10/29/2013 3d	10/29/2014 3d	10/19/2015 3d
fparam			
Dissolved oxygen (DO), field	0.07	0.12	0.18
Ferrous iron	0.5	1.5	1.0
Oxidation reduction potential (ORP), field	-22	-24	-99.2
pH, field	7.15	8.41	6.98
Gas			
Ethane	0.0024	0.0042	0.002
Ethene	0.0068	0.011	0.031
Methane	0.026	0.026	0.022
Wet			
Alkalinity, bicarbonate	400	350	410
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U
Chloride	78	80	62
Dissolved organic carbon (DOC)	3.1	1.6	2.0
Hardness	-	-	430
Hardness, carbonate	490	450	-
Nitrate (as N)	0.10 U	0.10 U	0.10 U
Nitrite (as N)	0.10 U	0.10 U	0.10 U
Sulfate	110 J	76	77
Sulfide	3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	3.2	1.5	1.8

MW 64	10/28/2014 3d	10/13/2015 3d
fparam		
Dissolved oxygen (DO), field	0.3	0.12
Ferrous iron	0	0.5
Oxidation reduction potential (ORP), field	4	-28.3
pH, field	8.12	7.07
Gas		
Ethane	0.00055	0.00031 J
Ethene	0.0004 J	0.00025 J
Methane	0.002	0.00078
Wet		
Alkalinity, bicarbonate	280 B	310
Alkalinity, carbonate	5.0 U	5.0 U
Chloride	48	52
Dissolved organic carbon (DOC)	1.2	1.7
Hardness	-	390
Hardness, carbonate	410	-
Nitrate (as N)	0.10 U	0.10 U
Nitrite (as N)	0.10 UH	0.10 U
Sulfate	81	75
Sulfide	3.0 U	3.0 U
Total organic carbon (TOC)	1.0	1.5

MW 66	10/27/2014 3d	10/13/2015 3d
fparam		
Dissolved oxygen (DO), field	0.14	0.05
Ferrous iron	0.5	1.0
Oxidation reduction potential (ORP), field	59	-51.4
pH, field	6.28	7.04
Gas		
Ethane	0.0005 U	0.0005 U
Ethene	0.00044 J	0.00034 J
Methane	0.0064	0.0048
Wet		
Alkalinity, bicarbonate	320	330
Alkalinity, carbonate	5.0 U	5.0 U
Chloride	35	47
Dissolved organic carbon (DOC)	1.2	1.4
Hardness	-	390
Hardness, carbonate	400	-
Nitrate (as N)	0.10 U	0.10 U
Nitrite (as N)	0.10 U	0.10 U
Sulfate	68	69
Sulfide	3.0 U	3.0 U
Total organic carbon (TOC)	1.1	1.4

MW-7	10/29/2014 3d
fparam	
Dissolved oxygen (DO), field	0.16
Ferrous iron	2.5
Oxidation reduction potential (ORP), field	-104
pH, field	8.86
Gas	
Ethane	0.0005 U
Ethene	0.0005 U
Methane	0.59 B
Wet	
Alkalinity, bicarbonate	500
Alkalinity, carbonate	5.0 U
Chloride	140
Dissolved organic carbon (DOC)	5.2
Hardness, carbonate	600
Nitrate (as N)	1.2
Nitrite (as N)	0.10 U
Sulfate	40
Sulfide	3.0 U
Total organic carbon (TOC)	5.4

MW 31R	10/24/2013 1	10/27/2014 1	10/14/2015 1
fparam			
Dissolved oxygen (DO), field	0.12	0.11	0.05
Ferrous iron	3.0	0	4.0
Oxidation reduction potential (ORP), field	-125	-23	-135.7
pH, field	7.25	6.45	7.05
Gas			
Ethane	0.025	0.065	0.059
Ethene	0.61	2.1	1.4
Methane	0.4	0.97	0.86
Wet			
Alkalinity, bicarbonate	420	460	620
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U
Chloride	67	69	90
Dissolved organic carbon (DOC)	14	15	10
Hardness	-	-	600
Hardness, carbonate	530	540	-
Nitrate (as N)	0.20 J	0.11 H	0.045 J
Nitrite (as N)	0.10 UJ	0.10 UH	0.10 U
Sulfate	140	30	11
Sulfide	3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	14	14	11

MW 49	10/27/2014 3s	10/13/2015 3s
fparam		
Dissolved oxygen (DO), field	0.12	0.04
Ferrous iron	0.5	0.5
Oxidation reduction potential (ORP), field	14	-32.2
pH, field	7.45	7.04
Gas		
Ethane	0.0036	0.0031
Ethene	0.0005 U	0.0005 U
Methane	0.009	0.014
Wet		
Alkalinity, bicarbonate	330	370
Alkalinity, carbonate	5.0 U	5.0 U
Chloride	30	32
Dissolved organic carbon (DOC)	0.77 J	1.7
Hardness	-	430
Hardness, carbonate	450	-
Nitrate (as N)	0.10 U	0.10 U
Nitrite (as N)	0.10 U	0.10 U
Sulfate	78	78
Sulfide	3.0 U	3.0 U
Total organic carbon (TOC)	0.77 J	1.3

MW 8	10/24/2013 3s	10/23/2014 3s	10/14/2015 3s
fparam			
Dissolved oxygen (DO), field	0.19	0.17	0.10
Ferrous iron	1.5	1.5	1.5
Oxidation reduction potential (ORP), field	-82	-7	-81.1
pH, field	7.09	7.2	7.04
Gas			
Ethane	0.016	0.029	0.03
Ethene	0.049	0.09	0.085
Methane	0.057	0.085	0.16
Wet			
Alkalinity, bicarbonate	420	400 B	450
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U
Chloride	27	17	18
Dissolved organic carbon (DOC)	3.4	1.9	2.5
Hardness	-	-	580
Hardness, carbonate	560	520	-
Nitrate (as N)	0.10 UJ	0.10 U	0.10 U
Nitrite (as N)	0.10 UJ	0.10 U	0.10 U
Sulfate	120	110	210
Sulfide	3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	3.4	2.0	2.3

MW 21	10/14/2015 3s
fparam	
Dissolved oxygen (DO), field	0.20
Ferrous iron	2.0
Oxidation reduction potential (ORP), field	-32.5
pH, field	7.10
Gas	
Ethane	0.0005 U
Ethene	0.0005 U
Methane	0.0027
Wet	
Alkalinity, bicarbonate	350
Alkalinity, carbonate	5.0 U
Chloride	47
Dissolved organic carbon (DOC)	7.1
Hardness	430
Nitrate (as N)	0.10 U
Nitrite (as N)	0.10 U
Sulfate	56
Sulfide	3.0 U
Total organic carbon (TOC)	7.5

MW 16	11/14/2013 3s	4/10/2014 3s
fparam		
Dissolved oxygen (DO), field	0.27	0.18
Ferrous iron	-	0
Oxidation reduction potential (ORP), field	7.62	173
pH, field		7.04
Gas		
Ethane	0.0005 U	0.0005 U
Ethene	0.0005 U	0.0005 U
Methane	0.008	0.016
Wet		
Alkalinity, bicarbonate	200	220
Alkalinity, carbonate	5.0 U	5.0 U
Chloride	44	35
Dissolved organic carbon (DOC)	2.3	1.5
Hardness, carbonate	320	250
Nitrate (as N)	0.10 U	0.10 U
Nitrite (as N)	0.10 U	0.10 U
Sulfate	65	56 J
Sulfide	R	3.0 U
Total organic carbon (TOC)	1.9	1.6

MW89-11	10/28/2014 3s	10/15/2015 3s
fparam		
Dissolved oxygen (DO), field	1.59	3.41
Ferrous iron	0	0.0
Oxidation reduction potential (ORP), field	173	53.3
pH, field	7.83	6.94
Gas		
Ethane	0.0005 U	0.0005 U
Ethene	0.0005 U	0.0005 U
Methane	0.000081 J	0.00058
Wet		
Alkalinity, bicarbonate	390 B	400
Alkalinity, carbonate	5.0 U	5.0 U
Chloride	43	33
Dissolved organic carbon (DOC)	3.2	1.7
Hardness	-	490
Hardness, carbonate	470	-
Nitrate (as N)	3.8	7.5
Nitrite (as N)	0.10 UH	0.10 U
Sulfate	43	46
Sulfide	3.0 U	3.0 U
Total organic carbon (TOC)	0.96 J	1.3

MW93-13	11/13/2013 3s	4/10/2014 3s
fparam		
Dissolved oxygen (DO), field	0.2	0.1
Ferrous iron	-	1
Oxidation reduction potential (ORP), field	-81	-60
pH, field	7.27	6.69
Gas		
Ethane	0.0005 U	0.00032 J
Ethene	0.00058	0.0016
Methane	0.0043	0.01
Wet		
Alkalinity, bicarbonate	330	330
Alkalinity, carbonate	5.0 U	5.0 U
Chloride	67	64
Dissolved organic carbon (DOC)	1.9	1.5
Hardness, carbonate	480	410
Nitrate (as N)	0.10 U	0.10 U
Nitrite (as N)	0.10 U	0.10 U
Sulfate	74	82 J
Sulfide	3.0 U	3.0 U
Total organic carbon (TOC)	1.6	1.7

MW 40	10/24/2013 3s	10/27/2014 3s	10/13/2015 3s
fparam			
Dissolved oxygen (DO), field	0.17	0.16	0.05
Ferrous iron	2.0	0.5	2.5
Oxidation reduction potential (ORP), field	-92	-8	-88.6
pH, field	7.22	7.14	7.06
Gas			
Ethane	0.00086	0.00068	0.00032 J
Ethene	0.0084	0.0059	0.0028
Methane	0.029	0.025	0.017
Wet			
Alkalinity, bicarbonate	320	330	360
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U
Chloride	76	75	51
Dissolved organic carbon (DOC)	2.4	1.9	1.7
Hardness	-	-	410
Hardness, carbonate	490	460	-
Nitrate (as N)	0.10 UJ	0.10 U	0.10 U
Nitrite (as N)	0.10 UJ	0.10 U	0.10 U
Sulfate	100 J	94	65
Sulfide	3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	2.5	1.1	1.6

MW 57	10/29/2013 3d	10/29/2014 3d	10/19/2015 3d
fparam			
Dissolved oxygen (DO), field	0.11	0.01	0.11
Ferrous iron	0.5	1.5	2.0
Oxidation reduction potential (ORP), field	-59	0	-59.4
pH, field	7.09	7.51	6.89
Gas			
Ethane	0.0005 U	0.00043 J	0.00083
Ethene	0.00093	0.0026	0.00093
Methane	0.0044	0.033	0.057
Wet			
Alkalinity, bicarbonate	370	360	440
Alkalinity, carbonate	5.0 U	5.0 U	5.0 U
Chloride	20	32	28
Dissolved organic carbon (DOC)	4.5	2.4	2.4
Hardness	-	-	510
Hardness, carbonate	520	500	-
Nitrate (as N)	0.10 U	0.10 U	0.10 U
Nitrite (as N)	0.10 U	0.10 U	0.10 U
Sulfate	140 J	100	120
Sulfide	3.0 U	3.0 U	3.0 U
Total organic carbon (TOC)	4.5	2.6	2.7

MW-2	10/29/2014 3d	10/19/2015 3d
fparam		
Dissolved oxygen (DO), field	0.24	0.15
Ferrous iron	0.5	2.0
Oxidation reduction potential (ORP), field	78	-60.7
pH, field	6.53	6.93
Gas		
Ethane	0.0005 U	0.0005 U
Ethene	0.0005 U	0.0005 U
Methane	0.0042	0.015
Wet		
Alkalinity, bicarbonate	350	430
Alkalinity, carbonate	5.0 U	5.0 U
Chloride	16	25
Dissolved organic carbon (DOC)	2.3	2.4
Hardness	-	490
Hardness, carbonate	460	-
Nitrate (as N)	0.069 J	0.10 U
Nitrite (as N)	0.10 U	0.10 U
Sulfate	59	76
Sulfide	3.0 U	3.0 U
Total organic carbon (TOC)	2.9	2.7

MW 85	10/29/2014 3d	10/19/2015 3d
fparam		
Dissolved oxygen (DO), field	0.17	0.37
Ferrous iron	2	2.5
Oxidation reduction potential (ORP), field	-110	-71.8
pH, field	9.51	7.00
Gas		
Ethane	0.0044	0.0018
Ethene	0.011	0.0061
Methane	0.023	0.02
Wet		
Alkalinity, bicarbonate	340	410
Alkalinity, carbonate	5.0 U	5.0 U
Chloride	150	120
Dissolved organic carbon (DOC)	1.5	1.8
Hardness	-	430
Hardness, carbonate	460	-
Nitrate (as N)	0.10 U	0.10 U
Nitrite (as N)	0.10 U	0.10 U
Sulfate	74	74
Sulfide	3.0 U	3.0 U
Total organic carbon (TOC)	1.4	1.8

MW 58	10/29/2014 3d	10/20/2015 3d
fparam		
Dissolved oxygen (DO), field	0.27	0.12
Ferrous iron	0.5	1.0
Oxidation reduction potential (ORP), field	-24	-38.0
pH, field	8.53	6.92
Gas		
Ethane	0.00062	0.00055/0.00058
Ethene	0.00073	0.00072/0.00072
Methane	0.018	0.0094/0.01
Wet		
Alkalinity, bicarbonate	330	440/440
Alkalinity, carbonate	5.0 U	5.0 UI/5.0 U
Chloride	50	43/42
Dissolved organic carbon (DOC)	1.7	1.7/1.8
Hardness	-	510/510
Hardness, carbonate	420	-
Nitrate (as N)	0.10 U	0.10 UI/0.10 U
Nitrite (as N)	0.10 U	0.10 UI/0.10 U
Sulfate	59	110/110
Sulfide	3.0 U	3.0 UI/3.0 U
Total organic carbon (TOC)	1.7	2.3/2.2

LEGEND

- SITE BOUNDARY
- LOT LINE
- RAILROAD
- FENCE LINE
- BUILDING
- MONITORING WELL LOCATION

0 100 300ft

MW 57 | 10/17/2006 | 3d

- SAMPLE LOCATION
- SAMPLE DATE
- GEOLOGIC UNIT

Gas	
Ethane	0.002 U
Ethene	0.002 U
Methane	0.001 U
Wet	
Alkalinity, bicarbonate	-
Alkalinity, total (as CaCO3)	437
Chloride	16.9
Dissolved organic carbon (DOC)	5 U
Hardness	610
Nitrate (as N)	0.05 U
Nitrite (as N)	0.05 U
Sulfate	137
Sulfide	1 U
Total organic carbon (TOC)	-
Fparam	
Dissolved oxygen (DO), field	0.26
Ferrous iron	3.5
Oxidation reduction potential (ORP), field	126
pH, field	6.87

- CONCENTRATION (mg/L)
- PARAMETER

WS - SURFACE WATER
1 - UNIT 1, PERCHED GROUNDWATER IN FILL
3S - UNIT 3, SHALLOW GROUNDWATER IN UPPERMOST AQUIFER
3I - UNIT 3, INTERMEDIATE GROUNDWATER IN UPPERMOST AQUIFER
3D - UNIT 3, DEEP GROUNDWATER IN UPPERMOST AQUIFER
B - BEDROCK, GROUNDWATER IN BEDROCK AQUIFER

SAMPLE LOCATIONS INCLUDED IN GMP

NOTES:
1. Results are shown in mg/L, except for pH (Field) (s.u.), and ORP (millivolts).
2. Parameters that do not appear in the databox for a particular sample were not analyzed.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, IN

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

2015 ANNUAL MONITORING REPORT

GROUNDWATER RESULTS MNA PARAMETERS - 2011 - 2015

GHD

Source Reference:

Project Manager:	Reviewed By:	Date:	
R. CATALLO	R. CATALLO	DECEMBER 2015	
Scale: 1"=300'	Project №: 017302-T07	Report №: 045	Drawing №: 13

017302-T07(045)GN-SC012 DEC 29, 2015

Table 1

Site-Wide Groundwater Monitoring Program
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Monitoring Well Location	*Hydro-Geologic Unit*	*Year Installed*	*Plume Position* [5]	*Monitored 3 x Per Year* [6]	*Semiannual Monitoring*	*Annual Monitoring*
MW-2	3d	2003	WWTP, Margin			X [7,8]
MW 3	3s	1992	AOC 1, Source		X [7,8]	
MW-4	3d	2003	WWTP, Tail		X [7,8]	
MW 8	3s	1993	AOC 1, Source		X [7,8]	
MW 12	3d	1993	AOC 1, Tail		X [7]	
MW 14	3s	1993	AOC 1, Tail		X [7]	
MW 15 [3]	3s	1993	AOC 1, Source			X [7,8]
MW 16 [4]	3s	1993	AOC 1, Margin			X [7]
MW 21 [3]	3s	2000	AOC 1, Margin			X [7,8]
MW 28	3d	2000	WWTP, Tail		X [7]	
MW 31R [1]	1	2000	AOC 1, Source		X [7,8]	
MW 37 [1]	3s	2001	AOC 1, Margin			X [7]
MW 40	3s	2003	WWTP, Source		X [7,8]	
MW 41	3d	2003	WWTP, Source		X [7]	
MW 42	3s	2003	WWTP, Source		X [7]	
MW 46 [1]	3s	2003	AOC 1, Margin			X [7]
MW 49	3s	2003	AOC 1, Tail		X [7,8]	
MW 51	3s	2003	AOC 1, Tail		X [7]	
MW 56	3d	2004	WWTP, Margin			X [7]
MW 57	3d	2004	WWTP, Margin			X [7,8]
MW 58	3d	2004	WWTP, Margin			X [7,8]
MW 61	3d	2004	WWTP, Margin			X [7]
MW 64	3d	2004	WWTP, Margin			X [7,8]
MW 65	3d	2004	WWTP, Margin			X [7]
MW 66	3d	2004	WWTP, Tail		X [7,8]	
MW 68	3s	2004	WWTP, Source		X [7,8]	
MW 75	3d	2004	AOC 1, Margin			X [7]
MW 76	3s	2004	AOC 1, Margin			X [7]
MW 79	3s	2004	AOC 1, Tail		X [7,8]	
MW 80	3d	2005	WWTP, Margin			X [7]
MW 81	B	2005	WWTP, Margin			X [7]
MW 82	B	2005	AOC 1, Margin			X [7]
MW 83	B	2005	WWTP, Margin			X [7]
MW 84 [4]	3S	2005	WWTP, Margin			
MW 85	3d	2007	WWTP, Tail		X [7,8]	
MW 86	3d	2010	WWTP, Tail			X [7]
MW 88	3d	2010	WWTP, Tail			X [7]
MW 89-11 [2]	3s	2011	AOC 1, Tail		X [7,8]	
MW 97-14 [3]	3d	2014	WWTP, Margin			X [7]
Pond (Intake)	Surface Water	N/A	Surface Water	X [7]		
Pond (North)	Surface Water	N/A	Surface Water	X [7]		

Notes:

(1) Well added to the monitoring program based on IDEM review comments 5/2/2008
(2) Well added to the monitoring program based on recommendation letter dated 4/18/2012 and approved by IDEM on 5/11/2012
(3) Well added to the monitoring program based on recommendation from the 2014 Annual Monitoring Report (2/2/2015) and approved by IDEM on 6/1/2015
(4) Well added to the monitoring program based on IDEM review comments 5/7/2015
(5) AOC 1 = VOC plume originating at AOC 1 - South Court
WWTP = VOC plume originating from former WWTP Area
Source = VOC source area well
(6) Locations to be sampled Spring, Summer, and Fall
(7) TCL VOCs: Target Compound List Volatile Organic Compounds
(8) MNA - Monitored Natural Attenuation Parameters collected during the Fall Event (Dissolved Gases, Sulfide, Alkalinity, Hardness, Dissolved Organic Carbon (DOC), Total Organic Carbon (TOC), Chloride, Sulfate, Nitrate, Nitrite, Manganese)

Table 2

Monitoring Well Construction and Surface Water Benchmark Details
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Monitoring Well Location	*Hydro-Geologic Unit*	*Northing* [1]	*Easting* [1]	*Datum El.* [2,3]	*2010 Revised Datum El.* [2,3]	*Screen Top* [2]	*Screen Bottom* [2]
MW 1	3s	1761110.3	317311.1	880.70	880.86	864.50	860.21
MW 2	3s	1761003.2	317244.7	879.70		864.75	860.47
MW2 R	3s	1760999.3	317243.9	879.68	879.25	864.46	860.18
MW 3	3s	1761137.6	317370.2	880.51	880.41	864.53	860.25
MW 4	3s	1761089.4	317240.2	880.78		865.97	861.48
MW 5	3s	1761134.5	317368.7	880.54		852.93	843.53
MW 6	3s	1760666.3	316823.5	878.22		864.80	855.18
MW 7	3d	1760663.6	316830.5	878.18		835.40	830.82
MW 8	3s	1760896.0	317004.4	878.41		863.33	853.74
MW9	3s	1761218.5	316990.4	881.65		866.31	856.70
MW 10	3s	1761128.0	317115.5	880.88		866.30	856.67
MW 11	3s	1761699.0	317145.5	882.68		861.51	851.88
MW 12	3i	1761692.8	317141.2	882.78		833.84	829.26
MW 13	3s	1761430.2	317517.7	881.25		866.13	856.50
MW 14	3s	1761435.2	317520.1	881.36		852.63	848.06
MW 15	3s	1761140.7	317459.5	879.67		864.76	855.13
MW 16	3s	1761203.4	317969.5	878.65	879.83	864.01	854.40
MW 17	3s	1761207.9	317966.4	878.30	879.86	853.30	848.72
MW 18	3s	1761337.0	317687.7	878.88		858.88	854.15
MW 19	3s	1761304.0	317721.7	878.54		858.75	854.04
MW 20	3s	1761098.7	317705.5	877.70		852.50	847.76
MW 21	3s	1760520.1	316698.0	878.74		850.92	846.20
MW 22	3s	1760525.5	316702.1	879.11		861.67	856.92
MW 23	3s	1761096.0	317715.2	877.68		860.71	855.97
MW 24	3d	1762007.5	317041.2	882.77		803.78	794.03
MW 25	3s	1762008.7	317047.0	882.85		853.75	844.00
MW 26	3d	1763564.6	319256.7	883.09		840.65	830.82
MW 27	1	1763566.5	319262.7	883.04		853.15	848.42
MW 28	3d	1761964.9	318819.0	877.44		834.40	824.66
MW 29	3s	1761971.1	318822.0	877.53		862.21	852.49
MW 30	1	1760992.0	317335.2	878.50		868.64	863.95
MW 31	1	1761074.5	317365.6	879.22		872.17	867.91
MW 31R	1	1761074.5	317365.6	879.71		871.58	866.90
MW 32	1	1760855.5	316937.0	878.88		871.99	867.71
MW 33	1	1760961.5	316889.2	880.01		873.05	868.76
MW 34	1	1761281.2	316498.1	883.67		858.38	849.03
MW 35	3d	1761273.9	316512.3	883.96		828.90	819.56
MW 36	3d	1760540.9	317908.8	870.09		850.97	846.24
MW 37	3s	1760543.9	317904.2	869.95		860.74	856.00
MW 38	3d	1760964.00	317719.32	877.65		846.42	836.74
MW 39	3d	1761249.83	318526.24	879.51		836.29	826.56
MW 40	3s	1761254.51	318528.40	879.51		851.37	841.64
MW 41	3d	1761575.05	318740.73	878.58		839.63	834.92
MW 42	3s	1761579.24	318742.21	878.54		854.93	845.20
MW 43	3d	1762141.24	318947.24	876.00		818.86	814.13
MW 44	3s	1762145.28	318948.82	876.02		853.74	844.02
MW 45	3d	1760998.51	318060.78	873.72		833.77	824.04
MW 46	3s	1761002.51	318062.71	873.64		859.63	854.92
MW 47	3s	1760620.47	316995.56	880.27		856.99	852.27
MW 48	3d	1760837.68	317340.18	877.96		838.96	834.25
MW 49	3s	1760839.93	317343.16	877.93		855.69	845.98
MW 50	3d	1762359.73	318367.08	878.27		839.92	835.20
MW 51	3s	1762357.18	318371.66	878.19		855.93	851.20
MW 52	3d	1761696.65	317137.65	882.69		797.11	787.39
MW 53	3d	1761894.20	317087.64	881.43		758.27	748.62
MW 54	3d	1761482.29	316871.62	880.37		820.55	810.82
MW 55	3s	1761482.41	316867.16	880.28		851.42	841.69
MW 56	3d	1760254.76	318422.25	859.32		847.93	838.27
MW 57	3d	1760357.35	318925.21	862.52		842.68	833.38
MW 58	3d	1760809.76	319598.52	861.46		854.35	849.69
MW 59	3s	1761696.70	318223.89	882.00		852.77	848.03

Table 2

Monitoring Well Construction and Surface Water Benchmark Details
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Monitoring Well Location	*Hydro-Geologic Unit*	*Northing* [1]	*Easting* [1]	*Datum El.* [2,3]	*2010 Revised Datum El.* [2,3]	*Screen Top* [2]	*Screen Bottom* [2]
MW 60	3s	1761917.38	317944.64	881.77		847.95	843.24
MW 61	3d	1762477.48	319069.90	876.57		823.11	813.40
MW 62	B	1762498.26	319076.96	876.70		783.65	773.95
MW 63	3s	1762488.77	319074.19	876.53		846.17	841.45
MW 64	3d	1761475.47	319789.86	863.97		853.22	843.56
MW 65	3d	1761484.84	319399.81	864.22		853.47	843.80
MW 66	3d	1761222.31	319634.36	861.67		853.73	844.02
MW 67	3d	1761427.43	318463.83	877.03		835.69	831.02
MW 68	3s	1761420.80	318459.32	876.98		846.75	842.09
MW 69	3d	1760874.10	316649.68	882.08		833.90	829.23
MW 70	3s	1760874.50	316644.87	881.82		849.98	840.32
MW 71	B	1762665.14	317640.98	878.16		761.95	752.31
MW 72	3s	1762672.70	317638.05	877.74		847.86	838.06
MW 73	3d	1762677.33	317644.90	877.96		797.57	787.91
MW 74	B	1760621.78	316817.18	881.10		818.81	809.07
MW 75	3d	1762956.02	318487.35	881.42		801.31	791.63
MW 76	3s	1762951.84	318492.81	881.11		831.97	822.34
MW 77	B	1760238.33	319661.11	862.77		851.67	842.04
MW 78	3s	1761873.71	317734.00	882.25		855.48	850.75
MW 79	3s	1761750.49	317811.99	881.92		841.69	836.96
MW 80	3d	1761928.33	319258.30	865.49		841.54	836.84
MW 81	B	1761479.01	319399.60	864.38		839.58	829.88
MW 82	B	1761198.31	317978.59	878.55	879.70	782.27	772.54
MW 83	B	1761260.12	318746.50	876.23		801.58	791.93
MW 84	3s	1761539.65	318105.07	881.95		848.97	844.25
MW 85	3d	1760642.54	319141.95	866.11		851.62	842.11
MW 86	3d	1762422.91	320453.85	859.12		841.15	836.67
MW 87	3d	1761790.75	320918.50	861.51		848.40	843.91
MW 88	3d	1762463.35	319813.49	859.59		829.41	819.91
MW 89-11	3s	1760693.90	317605.91	875.39		865.74	855.74
MW 90-12	1	1762368.16	318146.02	884.31		878.01	873.01
MW91-12	1	1762277.18	318106.74	884.50		877.30	872.30
MW 92-13	3s	1762364.98	318152.94	884.31		853.21	848.21
MW 93-13	3s	1761325.52	318397.91	880.71		848.09	843.09
MW 94-13	3s	1761506.98	318516.06	880.77		843.09	838.09
MW 95-13	3s	1761465.96	318360.70	884.13		856.53	851.53
MW 96-13	3s	1761495.10	318257.10	884.18		854.14	849.14
MW 97-14	3d	1760141.03	319196.24	860.14		849.35	844.35
ER-1	1	1761864.90	317412.04	881.93		868.16	858.16
ER-2	1	1761856.43	317394.55	881.96		872.19	862.19
ER-3	1	1761856.37	317361.47	882.09		872.28	862.28
Meadowbrook Golf Course Wells							
MW-1	3d	1759686.91	317622.12	859.18		855.67	847.67
MW-2	3d	1760047.06	319467.27	860.08		857.31	851.31
MW-3	3d	1760956.57	320710.96	862.68		860.06	851.36
MW-4	3d	1760961.86	318774.81	861.67		859.08	839.08
MW-5	3d	1760305.51	320618.11	871.01		866.49	853.49
MW-6	3d	1760511.36	320752.07	868.92		862.30	844.30
MW-7	3d	1760523.65	320689.67	869.69		864.01	844.01
Surface Water							
TBM-1	3d	1759953.34	320818.16	862.50		NA	NA
TBM-2	3d	1760924.00	320538.74	860.41		NA	NA
TBM-3	3d	1760214.40	318958.42	858.97		NA	NA
TBM-4	3d	1759888.87	318295.42	860.51		NA	NA
TBM-5	3d	1759672.93	318693.89	857.49		NA	NA
TBM-6	3d	1759806.90	319657.43	857.82		NA	NA
Culvert 1	3d	1760552.00	319168.00	857.79		NA	NA

Notes:
(1) Coordinates are Indiana State Plane Coordinate System, 1301 East, NAD 83, US Survey Feet.
(2) Elevation based on level survey relative to USGS Monument PID LA1429 = 882.61 NAVD88.
(3) Datum for elevation and depth is marked on top of PVC riser pipe.
NM - Not Measured
NA - Not Applicable

Table 3

Groundwater Elevations
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

			20-Oct-14		27-Apr-15		7-Oct-15	
Monitoring Well Location	*Hydro-Geologic Unit*	*Riser Elevation (f NAVD 88)*	*Depth to Water (f btor)*	*Groundwater Elevation (f NAVD 88)*	*Depth to Water (f btor)*	*Groundwater Elevation (f NAVD 88)*	*Depth to Water (f btor)*	*Groundwater Elevation (f NAVD 88)*
MW 1	3s	880.86	-	-	-	-	-	-
MW 2	3s	879.70	-	-	-	-	-	-
MW2 R	3s	879.25	16.95	862.30	-	-	-	-
MW 3	3s	880.41	18.29	862.12	15.85	864.56	17.97	862.44
MW 4	3s	880.78	18.49	862.29	-	-	-	-
MW 5	3s	880.54	18.17	862.37	-	-	17.94	862.60
MW 6	3s	878.22	15.24	862.98	-	-	15.08	863.14
MW 7	3d	878.18	15.24	862.94	-	-	15.08	863.10
MW 8	3s	878.41	15.8	862.61	12.96	865.45	15.52	862.89
MW9	3s	881.65	-	-	-	-	-	-
MW 10	3s	880.88	-	-	-	-	-	-
MW 11	3s	882.68	-	-	-	-	-	-
MW 12	3d	882.78	20.3	862.48	17.86	864.92	19.70	863.08
MW 13	3s	881.25	-	-	-	-	-	-
MW 14	3s	881.36	19.5	861.86	17.40	863.96	19.12	862.24
MW 15	3s	879.67	17.7	861.97	-	-	17.38	862.29
MW 16	3s	879.83	17.3	862.53	-	-	16.85	862.98
MW 17	3s	879.86	17.1	862.76	-	-	16.96	862.90
MW 18	3s	878.88	22.52	856.36	-	-	22.25	856.63
MW 19	3s	878.54	5.01	873.53	-	-	5.05	873.49
MW 20	3s	877.70	16.4	861.30	-	-	-	-
MW 21	3s	878.74	15.53	863.21	-	-	15.78	862.96
MW 22	3s	879.11	15.93	863.18	-	-	16.17	862.94
MW 23	3s	877.68	16.15	861.53	-	-	-	-
MW 24	3d	882.77	-	-	-	-	-	-
MW 25	3s	882.85	-	-	-	-	-	-
MW 26	3d	883.09	26.24	856.85	-	-	26.02	857.07
MW 27	1	883.04	25.85	857.19	-	-	23.18	859.86
MW 28	3d	877.44	19.31	858.13	18.81	858.63	19.92	857.52
MW 29	3s	877.53	15.31	862.22	-	-	14.88	862.65
MW 30	1	878.50	14.55	863.95	-	-	-	-
MW 31	1	879.22		-	-	-	-	-
MW 31R	1	879.71	8.96	870.75	6.91	872.80	8.58	871.13
MW 32	1	878.88	-	-	-	-	-	-
MW 33	1	880.01	-	-	-	-	-	-
MW 34	1	883.67	-	-	-	-	-	-
MW 35	3d	883.96	-	-	-	-	-	-
MW 36	3d	870.09	8.21	861.88	-	-	11.05	859.04
MW 37	3s	869.95	8.36	861.59	6.99	862.96	8.79	861.16
MW 38	3d	877.65	-	-	-	-	-	-
MW 39	3d	879.51	21.48	858.03	-	-	21.63	857.88
MW 40	3s	879.51	21.49	858.02	20.85	858.66	21.65	857.86
MW 41	3d	878.58	25	853.58	24.05	854.53	25.13	853.45
MW 42	3s	878.54	25.1	853.44	24.15	854.39	25.25	853.29
MW 43	3d	876.00	-	-	-	-	-	-
MW 44	3s	876.02	-	-	-	-	-	-
MW 45	3d	873.72	14.77	858.95	-	-	14.71	859.01
MW 46	3s	873.64	11.1	862.54	9.92	863.72	10.92	862.72
MW 47	3s	880.27	17.78	862.49	-	-	18.12	862.15
MW 48	3d	877.96	15.96	862.00	-	-	15.65	862.31
MW 49	3s	877.93	15.8	862.13	13.22	864.71	15.50	862.43
MW 50	3d	878.27	17.42	860.85	-	-	17.00	861.27
MW 51	3s	878.19	17.61	860.58	16.17	862.02	16.62	861.57
MW 52	3d	882.69	-	-	-	-	-	-
MW 53	3d	881.43	-	-	-	-	-	-
MW 54	3d	880.37	-	-	-	-	-	-
MW 55	3s	880.28	-	-	-	-	-	-
MW 56	3d	859.32	1.3	858.02	1.71	857.61	2.23	857.09
MW 57	3d	862.52	5.44	857.08	5.01	857.51	5.56	856.96
MW 58	3d	861.46	4.57	856.89	4.14	857.32	4.61	856.85

Table 3

Groundwater Elevations
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

			20-Oct-14		27-Apr-15		7-Oct-15	
Monitoring Well Location	*Hydro-Geologic Unit*	*Riser Elevation (f NAVD 88)*	*Depth to Water (f btor)*	*Groundwater Elevation (f NAVD 88)*	*Depth to Water (f btor)*	*Groundwater Elevation (f NAVD 88)*	*Depth to Water (f btor)*	*Groundwater Elevation (f NAVD 88)*
MW 59	3s	882.00	19.37	862.63	-	-	-	-
MW 60	3s	881.77	21.02	860.75	-	-	20.25	861.52
MW 61	3d	876.57	19.29	857.28	18.26	858.31	19.35	857.22
MW 62	B	876.70	18.96	857.74	-	-	18.80	857.90
MW 63	3s	876.53	18.13	858.40	-	-	18.05	858.48
MW 64	3d	863.97	5.32	858.65	6.12	857.85	7.08	856.89
MW 65	3d	864.22	6.94	857.28	6.12	858.10	7.11	857.11
MW 66	3d	861.67	4.72	856.95	4.30	857.37	4.73	856.94
MW 67	3d	877.03	19.28	857.75	-	-	19.12	857.91
MW 68	3s	876.98	18.81	858.17	17.80	859.18	18.90	858.08
MW 69	3d	882.08	-	-	-	-	-	-
MW 70	3s	881.82	-	-	-	-	-	-
MW 71	B	878.16	-	-	-	-	-	-
MW 72	3s	877.74	-	-	-	-	-	-
MW 73	3d	877.96	-	-	-	-	-	-
MW 74	B	881.10	17.99	863.11	-	-	17.31	863.79
MW 75	3d	881.42	21.76	859.66	-	-	-	-
MW 76	3s	881.11	21.74	859.37	-	-	-	-
MW 77	B	862.77	5.83	856.94	-	-	5.92	856.85
MW 78	3s	882.25	-	-	-	-	-	-
MW 79	3s	881.92	20.49	861.43	18.53	863.39	20.07	861.85
MW 80	3d	865.49	8.78	856.71	7.49	858.00	8.52	856.97
MW 81	B	864.38	7.16	857.22	6.37	858.01	7.30	857.08
MW 82	B	879.70	17.4	862.30	14.00	865.70	16.78	862.92
MW 83	B	876.23	18.7	857.53	18.02	858.21	18.95	857.28
MW 84	3s	881.95	19.55	862.40	-	-	19.17	862.78
MW 85	3d	866.11	9.01	857.10	8.57	857.54	9.11	857.00
MW 86	3d	859.12	3.33	855.79	2.19	856.93	3.51	855.61
MW 87	3d	861.51	2.09	859.42	-	-	3.10	858.41
MW 88	3d	859.59	3.25	856.34	2.19	857.40	3.32	856.27
MW 89-11	3s	875.39	8.13	867.26	11.22	864.17	13.38	862.01
MW 90-12	1	884.31	9.55	874.76	-	-	9.83	874.48
MW91-12	1	884.50	9.42	875.08	-	-	10.32	874.18
MW 92-13	3s	884.31	23.41	860.90	-	-	23.05	861.26
MW 93-13	3s	880.71	22.53	858.18	-	-	22.65	858.06
MW 94-13	3s	880.77	22.62	858.15	-	-	22.74	858.03
MW 95-13	3s	884.13	22.07	862.06	-	-	21.92	862.21
MW 96-13	3s	884.18	21.5	862.68	-	-	21.24	862.94
MW 97-14	3d	860.14	-	-	-	-	3.00	857.14
ER-1	1	881.93	-	-	-	-	-	-
ER-2	1	881.96	-	-	-	-	-	-
ER-3	1	882.09	10.82	871.27	-	-	9.91	872.18
Meadowbrook Golf Course Wells								
MW-1	3d	859.18	1.31	857.87	-	-	1.36	857.82
MW-2	3d	860.08	3.09	856.99	2.60	857.48	3.21	856.87
MW-3	3d	862.68	3.45	859.23	-	-	3.27	859.41
MW-4	3d	861.67	4.03	857.64	3.55	858.12	4.40	857.27
MW-5	3d	871.01	-	-	-	-	-	-
MW-6	3d	868.92	-	-	-	-	-	-
MW-7	3d	869.69	9.35	860.34	-	-	10.20	859.49
Pond (North)	Surface Water	857.79	-	-	0.9	856.89	1.00	856.79

Notes:
(1) btor - below top of riser (i.e., reference elevation).
(2) Elevation based on level survey relative to USGS Monument PID LA1429 = 882.61 NAVD88.
(3) Datum for elevation and depth is marked on top of PVC riser pipe.
(4) Blank table entries indicate that reference location was not installed at the time measurements were taken. A dash (-) indicates that the location was not measured.

Table 4

Sample Key
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location	*Sample Identification*	*Sample Date*	*Time*	*Matrix*	*Sample Type*	*Parent Sample*	*TCL VOCs*	*MNA Parameters*
MW-2	GW-101915-TP-037	10/19/15	14:34	GW	N	-	X	X
MW 3	GW-042815-SM-010	04/28/15	11:12	GW	N	-	X	
MW 3	GW-101415-TP-031	10/14/15	15:07	GW	N	-	X	X
MW-4	GW-042715-SM-002	04/27/15	11:03	GW	N	-	X	
MW-4	GW-101915-TP-034	10/19/15	11:12	GW	N	-	X	X
MW 8	GW-042815-SM-011	04/28/15	11:47	GW	N	-	X	
MW 8	GW-101415-TP-029	10/14/15	10:48	GW	N	-	X	X
MW 12	GW-042715-SM-004	04/27/15	12:47	GW	N	-	X	
MW 12	GW-100915-TP-007	10/09/15	9:38	GW	N	-	X	
MW 14	GW-042915-SM-018	04/29/15	10:17	GW	N	-	X	
MW 14	GW-042915-SM-019	04/29/15	10:20	GW	FD	GW-042915-SM-018	X	
MW 14	GW-101215-TP-018	10/12/15	15:07	GW	N	-	X	
MW 15	GW-101415-TP-032	10/14/15	17:07	GW	N	-	X	X
MW 16	GW-101215-TP-020	10/12/15	16:40	GW	N	-	X	
MW 21	GW-101415-TP-028	10/14/15	9:52	GW	N	-	X	X
MW 28	GW-042915-SM-015	04/29/15	8:33	GW	N	-	X	
MW 28	GW-101215-TP-013	10/12/15	12:07	GW	N	-	X	
MW 31R	GW-101415-TP-030	10/14/15	14:12	GW	N	-	X	X
MW 31R	GW-042815-SM-009	04/28/15	10:43	GW	N	-	X	
MW 37	GW-100915-TP-009	10/09/15	11:23	GW	N	-	X	
MW 40	GW-042815-SM-014	04/28/15	13:37	GW	N	-	X	
MW 40	GW-101315-TP-023	10/13/15	12:12	GW	N	-	X	X
MW 41	GW-042915-SM-017	04/29/15	9:37	GW	N	-	X	
MW 41	GW-101215-TP-014	10/12/15	12:58	GW	N	-	X	
MW 41	GW-101215-TP-015	10/12/15	13:00	GW	FD	GW-101215-TP-014	X	
MW 42	GW-042915-SM-016	04/29/15	9:17	GW	N	-	X	
MW 42	GW-101215-TP-016	10/12/15	13:42	GW	N	-	X	
MW 46	GW-100915-TP-008	10/09/15	10:37	GW	N	-	X	
MW 49	GW-042815-SM-005	04/28/15	8:17	GW	N	-	X	
MW 49	GW-101315-TP-027	10/13/15	15:23	GW	N	-	X	X
MW 51	GW-042815-SM-012	04/28/15	12:52	GW	N	-	X	
MW 51	GW-042815-SM-013	04/28/15	12:54	GW	FD	GW-042815-SM-012	X	
MW 51	GW-100915-TP-010	10/09/15	11:59	GW	N	-	X	
MW 56	GW-101915-TP-038	10/19/15	15:27	GW	N	-	X	
MW 57	GW-101915-TP-036	10/19/15	13:33	GW	N	-	X	X
MW 58	GW-102015-TP-042	10/20/15	10:27	GW	N	-	X	X
MW 58	GW-102015-TP-043	10/20/15	10:35	GW	FD	GW-102015-TP-042	X	X
MW 61	GW-100915-TP-011	10/09/15	12:42	GW	N	-	X	
MW 64	GW-101315-TP-021	10/13/15	10:03	GW	N	-	X	X
MW 65	GW-100815-TP-005	10/08/15	14:32	GW	N	-	X	
MW 66	GW-042715-SM-003	04/27/15	11:57	GW	N	-	X	
MW 66	GW-101315-TP-022	10/13/15	11:02	GW	N	-	X	X
MW 68	GW-042815-SM-007	04/28/15	9:47	GW	N	-	X	
MW 68	GW-042815-SM-008	04/28/15	10:00	GW	FD	GW-042815-SM-007	X	
MW 68	GW-101315-TP-024	10/13/15	13:12	GW	N	-	X	X
MW 68	GW-101315-TP-025	10/13/15	13:20	GW	FD	GW-101315-TP-024	X	X
MW 79	GW-042915-SM-020	04/29/15	11:17	GW	N	-	X	
MW 79	GW-101315-TP-026	10/13/15	14:17	GW	N	-	X	X
MW 80	GW-100815-TP-001	10/08/15	11:27	GW	N	-	X	
MW 81	GW-100815-TP-006	10/08/15	15:18	GW	N	-	X	
MW 82	GW-101215-TP-019	10/12/15	15:58	GW	N	-	X	
MW 83	GW-100915-TP-012	10/09/15	14:38	GW	N	-	X	
MW 84	GW-101215-TP-017	10/12/15	14:22	GW	N	-	X	
MW 85	GW-042715-SM-001	04/27/15	10:17	GW	N	-	X	
MW 85	GW-101915-TP-035	10/19/15	12:24	GW	N	-	X	X
MW 86	GW-100815-TP-004	10/08/15	13:40	GW	N	-	X	
MW 88	GW-100815-TP-002	10/08/15	12:47	GW	N	-	X	
MW 88	GW-100815-TP-003	10/08/15	12:49	GW	FD	GW-100815-TP-002	X	
MW 89-11	GW-042815-SM-006	04/28/15	9:08	GW	N	-	X	
MW 89-11	GW-101515-TP-033	10/15/15	9:48	GW	N	-	X	X

Table 4

Sample Key
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location	*Sample Identification*	*Sample Date*	*Time*	*Matrix*	*Sample Type*	*Parent Sample*	*TCL VOCs*	*MNA Parameters*
MW 97-14	GW-102015-TP-039	10/20/15	9:17	GW	N	-	X	
Pond (Intake)	SW-042715-SM-001	04/27/15	10:06	SW	N	-	X	
Pond (Intake)	SW-071015-SM-002	07/10/15	8:30	SW	N	-	X	
Pond (Intake)	SW-071015-SM-003	07/10/15	8:35	SW	FD	SW-071015-SM-002	X	
Pond (Intake)	GW-102015-TP-040	10/20/15	9:25	GW	N	-	X	
Pond (North)	SW-042715-SM-002	04/27/15	10:10	SW	N	-	X	
Pond (North)	SW-071015-SM-001	07/10/15	8:15	SW	N	-	X	
Pond (North)	GW-102015-TP-041	10/20/15	9:30	GW	N	-	X	
Equipment Blank	RB-042815-SM-001	04/28/15	8:30	EB	N	-	X	
Equipment Blank	RB-042815-SM-002	04/28/15	13:45	EB	N	-	X	
Equipment Blank	RB-042915-SM-003	04/29/15	10:39	EB	N	-	X	
Equipment Blank	RB-100815-TP-001	10/08/15	11:38	EB	N	-	X	
Equipment Blank	RB-101215-TP-002	10/08/15	12:15	EB	N	-	X	
Equipment Blank	RB-101315-TP-003	10/13/15	14:40	EB	N	-	X	
Equipment Blank	RB-101515-TP-004	10/15/15	10:10	EB	N	-	X	
Trip Blank	TB-042915-SM-001	04/29/15	12:00	TB	N	-	X	
Trip Blank	TB-071015-SM-001	07/10/15	8:45	TB	N	-	X	
Trip Blank	TB-100815-TP-001	10/08/15	15:45	TB	N	-	X	
Trip Blank	TB-101315-TP-002	10/13/15	16:00	TB	N	-	X	
Trip Blank	TB-101415-TP-003	10/14/15	17:30	TB	N	-	X	
Trip Blank	TB-101515-TP-004	10/15/15	10:45	TB	N	-	X	
Trip Blank	TB-101915-TP-005	10/19/15	15:45	TB	N	-	X	
Trip Blank	TB-102015-TP-006	10/20/15	11:40	TB	N	-	X	

Notes:
X - Sample collected and analyzed at the laboratory for the noted parameters
GW - Groundwater
SW - Surface Water
TB - Trip Blank
EB - Equipment Blank
N - Normal
FD - Field Duplicate
N/A - Not Applicable
MNA - Monitored Natural Attenuation (Dissolved Gases, Sulfide, Alkalinity, Hardness, Dissolved Organic Carbon (DOC), Total Organic Carbon (TOC), Chloride, Sulfate, Nitrate, Nitrite, Manganese)
TCL VOCs - Target Compound List Volatile Organic Compounds

Table 5

Well Stabilization Parameters - April and October 2015
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW-2	10/19/15	14:05	--	--	--	--	--	--
		14:20	18.26	0.661	0.15	1.59	6.92	-60.5
		14:25	18.26	0.660	0.15	1.35	6.93	-60.5
		14:30	18.26	0.660	0.15	0.94	6.93	-60.7
MW 3	04/28/15	10:45	--	--	--	--	--	--
		11:00	12.01	0.750	0.01	7.38	7.35	29.5
		11:05	11.98	0.750	0.04	5.99	7.35	29.9
		11:10	11.95	0.750	0.04	4.88	7.35	31.1
MW 3	10/14/15	14:40	--	--	--	--	--	--
		14:55	15.50	0.506	0.14	1.48	7.10	-21.8
		15:00	15.51	0.507	0.13	1.15	7.10	-22.0
		15:05	15.51	0.508	0.12	1.63	7.10	-22.5
MW-4	04/27/15	10:35	--	--	--	--	--	--
		10:50	10.92	1.080	0.08	27.10	7.24	-32.2
		10:55	10.86	1.080	0.08	27.30	7.24	-32.2
		11:00	10.89	1.080	0.08	29.70	7.24	-32.2
MW-4	10/19/15	10:45	--	--	--	--	--	--
		11:00	15.62	0.689	0.20	21.20	6.99	-68.3
		11:05	15.66	0.687	0.19	22.40	6.98	-68.4
		11:10	15.67	0.687	0.18	20.50	6.98	-69.2
MW 8	04/28/15	11:20	--	--	--	--	--	--
		11:35	11.82	0.990	0.02	9.01	7.33	-56.0
		11:40	11.83	0.990	0.02	6.22	7.33	-56.6
		11:45	11.83	0.990	0.02	3.96	7.33	-57.1
MW 8	10/14/15	10:20	--	--	--	--	--	--
		10:35	13.84	0.732	0.10	10.10	7.03	-79.5
		10:40	13.82	0.727	0.10	6.25	7.04	-80.7
		10:45	13.80	0.726	0.10	4.11	7.04	-81.1
MW 12	04/27/15	12:00	--	--	--	--	--	--
		12:35	15.43	0.850	1.15	10.20	7.33	-30.6
		12:40	15.31	0.850	1.16	5.13	7.30	37.2
		12:45	15.28	0.850	1.16	3.91	7.31	-33.9

Table 5

Well Stabilization Parameters - April and October 2015
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 12	10/09/15	9:05	--	--	--	--	--	--
		9:20	15.29	0.607	0.57	22.30	7.03	-58.7
		9:25	15.59	0.612	0.31	10.30	7.02	-77.4
		9:30	15.55	0.613	0.30	5.80	7.03	-74.0
		9:35	15.57	0.614	0.29	4.11	7.03	-77.3
MW 14	04/29/15	9:50	--	--	--	--	--	--
		10:05	13.28	0.900	0.02	22.10	7.43	-71.5
		10:10	13.28	0.900	0.02	23.60	7.43	-70.9
		10:15	13.26	0.900	0.02	28.20	7.43	-71.2
MW 14	10/12/15	14:40	--	--	--	--	--	--
		14:55	14.69	0.616	0.03	4.55	7.06	-96.1
		15:00	14.70	0.617	0.03	3.17	7.06	-97.1
		15:05	14.71	0.619	0.03	2.84	7.06	-97.7
MW 15	10/14/15	16:40	--	--	--	--	--	--
		16:55	14.55	0.526	0.09	4.49	7.04	-21.1
		17:00	15.56	0.528	0.09	4.10	7.04	-21.3
		17:05	14.58	0.529	0.09	3.15	7.05	-22.2
MW 16	10/12/15	16:10	--	--	--	--	--	--
		16:25	13.97	0.395	0.09	2.85	7.48	21.6
		16:30	13.96	0.395	0.08	2.15	7.48	21.7
		16:35	13.95	0.397	0.08	1.63	7.48	21.4
MW 21	10/14/15	9:20	--	--	--	--	--	--
		9:35	12.24	0.525	0.21	3.15	7.10	-33.0
		9:40	12.24	0.526	0.20	2.75	7.10	-32.9
		9:50	12.25	0.527	0.20	2.16	7.10	-32.5
MW 28	04/29/15	8:05	--	--	--	--	--	--
		8:20	16.05	1.120	0.07	8.47	7.42	-75.0
		8:25	16.11	1.120	0.07	6.49	7.42	-75.3
		8:30	16.13	1.120	0.07	4.12	7.42	-74.8
MW 28	10/12/15	11:40	--	--	--	--	--	--
		11:55	17.87	0.731	0.14	10.60	7.02	-96.1
		12:00	17.87	0.731	0.14	10.90	7.03	-97.8
		12:05	17.87	0.735	0.14	10.40	7.03	-99.3

Table 5

Well Stabilization Parameters - April and October 2015
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Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 31R	04/28/15	10:15	--	--	--	--	--	--
		10:30	10.63	1.290	0.08	9.23	7.32	-87.0
		10:45	10.51	1.290	0.08	5.01	7.32	-88.5
		10:50	10.43	1.290	0.08	3.92	7.32	-88.9
MW 31R	10/14/15	13:45	--	--	--	--	--	--
		14:00	16.38	0.908	0.06	7.78	7.05	-134.3
		14:05	16.38	0.909	0.06	4.29	7.05	-135.1
		14:10	16.38	0.910	0.05	3.15	7.05	-135.7
MW 37	10/09/15	10:50	--	--	--	--	--	--
		11:10	16.67	0.532	2.07	11.30	7.03	48.6
		11:15	16.69	0.532	2.08	7.25	7.03	48.6
		11:20	16.68	0.532	2.06	4.94	7.03	49.0
MW 40	04/28/15	13:10	--	--	--	--	--	--
		13:25	15.53	0.920	0.07	12.60	7.29	-63.2
		13:30	15.56	0.920	0.07	7.32	7.29	-62.9
		13:35	15.52	0.920	0.07	4.16	7.29	-61.8
MW 40	10/13/15	11:45	--	--	--	--	--	--
		12:00	14.90	0.626	0.05	8.60	7.07	-88.3
		12:05	14.88	0.625	0.05	8.34	7.06	-88.4
		12:10	14.87	0.621	0.05	8.17	7.06	-88.6
MW 41	04/29/15	9:10	--	--	--	--	--	--
		9:25	15.14	0.990	0.53	14.70	7.44	-76.9
		9:30	15.16	0.990	0.53	6.53	7.43	-76.2
		9:35	15.19	0.990	0.52	4.12	7.43	-76.7
MW 41	10/12/15	12:30	--	--	--	--	--	--
		12:45	16.72	0.691	0.08	7.31	7.02	-110.2
		12:50	16.70	0.693	0.08	7.08	7.02	-111.8
		12:55	16.74	0.693	0.08	4.12	7.02	-112.0
MW 42	04/29/15	8:50	--	--	--	--	--	--
		9:05	14.61	0.820	0.20	7.02	7.49	-34.1
		9:10	14.62	0.820	0.20	5.13	7.48	-34.5
		9:15	14.66	0.820	0.20	3.88	7.48	-34.7

Table 5

Well Stabilization Parameters - April and October 2015
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Anderson, Indiana

Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 42	12/12/15	13:15	--	--	--	--	--	--
		13:30	16.78	0.669	0.07	3.60	7.02	-66.1
		13:35	16.80	0.670	0.07	2.78	7.02	-66.6
		13:40	16.81	0.670	0.07	2.51	7.02	-66.7
MW 46	10/09/15	10:10	--	--	--	--	--	--
		10:25	15.75	0.638	0.25	8.40	6.84	46.1
		10:30	15.80	0.640	0.24	4.00	6.84	46.4
		10:35	15.78	0.641	0.24	3.72	6.84	46.4
MW 49	04/28/15	7:50	--	--	--	--	--	--
		8:05	12.39	0.820	0.09	12.30	7.29	-2.9
		8:10	12.48	0.820	0.09	7.21	7.29	-2.8
		8:15	12.42	0.820	0.09	4.76	7.29	-2.6
MW 49	10/13/15	14:55	--	--	--	--	--	--
		15:10	13.86	0.576	0.04	5.65	7.05	-30.8
		15:15	13.90	0.578	0.04	4.27	7.05	-31.4
		15:20	13.91	0.579	0.04	4.31	7.04	-32.2
MW 51	04/28/15	12:20	--	--	--	--	--	--
		12:35	14.07	0.940	0.40	5.98	7.31	48.2
		12:40	14.01	0.940	0.40	4.10	7.31	47.6
		12:45	13.97	0.940	0.40	3.22	7.31	47.1
MW 51	10/09/15	11:30	--	--	--	--	--	--
		11:45	15.32	0.683	0.10	5.34	7.02	25.5
		11:50	15.31	0.683	0.09	1.92	7.02	25.4
		11:55	15.31	0.683	0.09	1.35	7.02	25.4
MW 56	10/19/15	15:00	--	--	--	--	--	--
		15:15	15.39	0.572	0.13	14.60	7.10	-81.9
		15:20	15.36	0.572	0.12	5.97	7.11	-82.6
		15:25	15.35	0.571	0.12	7.96	7.10	-83.0
MW 57	10/19/15	13:05	--	--	--	--	--	--
		13:20	16.66	0.678	0.13	4.58	6.90	-59.1
		13:25	16.65	0.678	0.12	1.83	6.89	-59.0
		13:30	16.64	0.678	0.11	1.40	6.89	-59.4
MW 58	10/20/15	10:00	--	--	--	--	--	--
		10:15	15.29	0.691	0.15	9.64	6.92	-39.2
		10:20	15.32	0.691	0.13	5.49	6.92	-38.7
		10:25	15.34	0.690	0.12	4.07	6.92	-38.0

Table 5

Well Stabilization Parameters - April and October 2015
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Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 61	10/09/15	12:15	--	--	--	--	--	--
		12:30	17.11	0.728	0.79	2.72	6.97	-74.2
		12:35	17.10	0.727	0.80	2.35	6.97	-73.8
		12:40	17.08	0.727	0.80	2.21	6.97	-72.4
MW 64	10/13/15	9:38	--	--	--	--	--	--
		9:50	17.19	0.603	0.13	5.71	7.07	-27.1
		9:55	17.20	0.602	0.12	5.15	7.07	-27.7
		10:00	17.21	0.602	0.12	4.94	7.07	-28.3
MW 65	10/08/15	14:00	--	--	--	--	--	--
		14:15	19.19	0.610	0.06	18.20	7.14	-54.7
		14:20	19.20	0.613	0.06	8.40	7.15	-55.8
		14:25	19.21	0.613	0.06	5.08	7.15	-56.4
		14:30	19.22	0.615	0.06	3.97	7.15	-57.3
MW 66	04/27/15	11:30	--	--	--	--	--	--
		11:45	10.26	0.770	0.70	6.07	7.33	-16.3
		11:50	10.26	0.770	0.70	5.13	7.34	-15.1
		11:55	10.26	0.770	0.70	3.62	7.34	-14.9
MW 66	10/13/15	10:35	--	--	--	--	--	--
		10:50	15.86	0.567	0.07	5.72	7.05	-51.0
		10:55	15.88	0.566	0.06	4.15	7.05	-51.2
		11:00	15.89	0.567	0.05	3.37	7.04	-51.4
MW 68	04/28/15	9:20	--	--	--	--	--	--
		9:35	15.61	0.850	0.14	5.22	7.29	-45.2
		9:40	15.66	0.850	0.14	4.62	7.31	-45.1
		9:45	15.63	0.850	0.14	3.29	7.29	-45.8
MW 68	10/13/15	12:45	--	--	--	--	--	--
		13:00	15.19	0.582	0.05	3.15	7.07	-77.0
		13:05	15.21	0.581	0.06	1.87	7.07	-76.9
		13:10	15.24	0.584	0.07	1.77	7.07	-77.1
MW 79	04/29/15	10:50	--	--	--	--	--	--
		11:05	14.21	0.890	0.07	12.10	7.44	-57.6
		11:10	14.25	0.890	0.07	13.60	7.44	-50.8
		11:15	14.32	0.890	0.07	15.30	7.44	-50.2

Table 5

Well Stabilization Parameters - April and October 2015
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Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 79	10/13/15	13:50	--	--	--	--	--	--
		14:05	14.72	0.596	0.10	13.30	7.05	-67.7
		14:10	14.74	0.594	0.10	13.50	7.06	-69.1
		14:15	14.75	0.598	0.10	13.90	7.06	-70.4
MW 80	10/08/15	11:00	--	--	--	--	--	--
		11:15	18.19	0.830	0.15	2.61	6.90	-49.8
		11:20	18.22	0.831	0.15	2.34	6.92	-49.2
		11:25	18.21	0.832	0.15	2.12	6.92	-50.6
MW 81	10/08/15	14:40	--	--	--	--	--	--
		15:00	15.66	0.631	0.06	1.24	7.03	-28.4
		15:05	15.66	0.633	0.06	1.15	7.03	-27.2
		15:10	15.66	0.633	0.06	1.02	7.03	-27.0
		15:15	15.66	0.634	0.05	0.97	7.03	-26.1
MW 82	10/12/15	15:30	--	--	--	--	--	--
		15:45	14.90	0.559	0.37	5.82	7.19	-36.7
		15:50	14.91	0.559	0.36	5.14	7.17	-37.2
		15:55	14.92	0.562	0.34	4.83	7.17	-38.5
MW 83	10/09/15	14:00	--	--	--	--	--	--
		14:15	14.67	0.415	0.51	14.60	7.05	-70.8
		14:20	14.70	0.415	0.50	6.25	7.05	-71.1
		14:25	14.71	0.415	0.47	4.55	7.05	-71.1
MW 84	10/12/15	13:55	--	--	--	--	--	--
		14:10	14.75	0.851	0.11	21.20	7.01	-11.5
		14:15	14.77	0.854	0.10	20.50	7.01	-11.7
		14:20	14.78	0.856	0.10	24.70	7.01	-12.1
MW 85	04/27/15	9:50	--	--	--	--	--	--
		10:05	12.13	1.110	0.19	10.90	7.23	-34.0
		10:10	12.16	1.110	0.19	7.13	7.22	-34.3
		10:15	12.22	1.110	0.19	4.96	7.22	-34.2
MW 85	10/19/15	11:55	--	--	--	--	--	--
		12:10	15.25	0.811	0.40	14.80	7.02	-71.7
		12:15	15.27	0.809	0.38	15.60	7.01	-71.8
		12:20	15.29	0.808	0.37	14.10	7.00	-71.8

Table 5

Well Stabilization Parameters - April and October 2015
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Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 86	10/08/15	13:10	--	--	--	--	--	--
		13:25	15.46	0.728	0.07	1.85	6.87	-64.4
		13:30	15.49	0.731	0.08	1.12	6.87	-65.2
		13:35	15.51	0.732	0.08	0.86	6.87	-66.2
MW 88	10/08/15	12:20	--	--	--	--	--	--
		12:35	18.47	0.915	0.68	5.86	6.97	-82.0
		12:40	18.46	0.920	0.67	3.45	6.96	-83.3
		12:45	18.43	0.921	0.64	3.73	6.94	-84.0
MW 89-11	04/28/15	8:35	--	--	--	--	--	--
		8:50	10.04	1.190	0.02	28.10	7.06	82.0
		8:55	10.02	1.190	0.02	25.70	7.06	82.7
		9:00	10.12	1.190	0.02	26.90	7.06	83.1
		9:05	10.15	1.190	0.02	27.30	7.06	82.5
MW 89-11	10/15/15	9:20	--	--	--	--	--	--
		9:35	13.73	0.613	3.44	9.81	6.94	52.4
		9:40	13.74	0.614	3.43	5.27	6.94	52.8
		9:45	13.77	0.614	3.41	4.95	6.94	53.3
MW 97-14	10/20/15	8:50	--	--	--	--	--	--
		9:05	14.51	0.805	0.18	28.90	6.79	-60.8
		9:10	14.55	0.807	0.17	28.00	6.78	-60.4
		9:15	14.56	0.810	0.16	26.70	6.78	-60.3

Notes:

mg/L	milligram per litre
mS/cm	millisiemens per centimetre
mV	millivolts
s.u.	Standard Units
^{o}C	degrees Celsius
NTU	Nephelometric Turbidity Units

Table 6

Summary of Groundwater Analytical Data - VOCs
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		***MW-2***	***MW 3***	***MW 3***	***MW-4***	***MW-4***	***MW 8***
Sample ID:		***GW-101915-TP-037***	***GW-042815-SM-010***	***GW-101415-TP-031***	***GW-042715-SM-002***	***GW-101915-TP-034***	***GW-042815-SM-011***
Sample Date:		***10/19/2015***	***4/28/2015***	***10/14/2015***	***4/27/2015***	***10/19/2015***	***4/28/2015***
Parameters:	***Units***						
Volatile Organic Compounds							
Acetone	mg/L	0.01 U	3.3 U	1.4 U	5 U	3.3 U	1.7 U
Benzene	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
Bromodichloromethane	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
Bromoform	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	3.3 U	1.4 U	5 U	3.3 U	1.7 U
Carbon disulfide	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
Carbon tetrachloride	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
Chlorobenzene	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
Chloroethane	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
Dibromochloromethane	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
1,1-Dichloroethane	mg/L	0.001 U	0.2 J	0.1 J	0.36 J	0.47	0.17 U
1,2-Dichloroethane	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
1,1-Dichloroethene	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
cis-1,2-Dichloroethene	mg/L	0.001 U	4.5	1.4	10	12	3.8
trans-1,2-Dichloroethene	mg/L	0.001 U	0.33 U	0.14 U	0.25 J	0.33	0.17 U
1,2-Dichloropropane	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
Ethylbenzene	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
2-Hexanone	mg/L	0.01 U	3.3 U	1.4 U	5 U	3.3 U	1.7 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	3.3 U	1.4 U	5 U	3.3 U	1.7 U
Methylene chloride	mg/L	0.001 U	0.14 J	0.14 U	0.5 U	0.33 U	0.07 J
Styrene	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
Tetrachloroethene	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
Toluene	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.42	0.36	0.5 U	0.33 U	0.17 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.33 U	0.14 U	0.5 U	0.33 U	0.17 U
Trichloroethene	mg/L	0.001 U	8.3	5.1	0.5	1	0.33
Vinyl chloride	mg/L	0.001 U	0.33 U	0.062 J	0.42 J	0.47	1.9
Xylenes (total)	mg/L	0.002 U	0.67 U	0.29 U	1 U	0.67 U	0.33 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		***MW 8***	***MW 12***	***MW 12***	***MW 14***	***MW 14***	***MW 14***
Sample ID:		***GW-101415-TP-029***	***GW-042715-SM-004***	***GW-100915-TP-007***	***GW-042915-SM-018***	***GW-042915-SM-019***	***GW-101215-TP-018***
Sample Date:		***10/14/2015***	***4/27/2015***	***10/9/2015***	***4/29/2015***	***4/29/2015***	***10/12/2015***
Parameters:	***Units***					***(Duplicate)***	
Volatile Organic Compounds							
Acetone	mg/L	2 U	0.057 U	0.05 U	2 U	2 U	2 U
Benzene	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Bromoform	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Bromomethane (Methyl bromide)	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	2 U	0.057 U	0.05 U	2 U	2 U	2 U
Carbon disulfide	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Carbon tetrachloride	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Chloroethane	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Chloroform (Trichloromethane)	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Chloromethane (Methyl chloride)	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	mg/L	4.8	0.13	0.08	4.5	4.8	4.7
trans-1,2-Dichloroethene	mg/L	0.2 U	0.0018 J	0.0019 J	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
cis-1,3-Dichloropropene	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
2-Hexanone	mg/L	2 U	0.057 U	0.05 U	2 U	2 U	2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	2 U	0.057 U	0.05 U	2 U	2 U	2 U
Methylene chloride	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Styrene	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Toluene	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
1,1,1-Trichloroethane	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	mg/L	0.2 U	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Trichloroethene	mg/L	0.42	0.0057 U	0.005 U	0.2 U	0.2 U	0.2 U
Vinyl chloride	mg/L	1.5	0.0057 U	0.005 U	0.15 J	0.15 J	0.14 J
Xylenes (total)	mg/L	0.4 U	0.011 U	0.01 U	0.4 U	0.4 U	0.4 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		***MW 15***	***MW 16***	***MW 21***	***MW 28***	***MW 28***	***MW 31R***
Sample ID:		***GW-101415-TP-032***	***GW-101215-TP-020***	***GW-101415-TP-028***	***GW-042915-SM-015***	***GW-101215-TP-013***	***GW-042815-SM-009***
Sample Date:		***10/14/2015***	***10/12/2015***	***10/14/2015***	***4/29/2015***	***10/12/2015***	***4/28/2015***
Parameters:	***Units***						
Volatile Organic Compounds							
Acetone	mg/L	1.7 U	0.01 U	0.01 U	0.25 U	0.4 U	5 U
Benzene	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Bromodichloromethane	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Bromoform	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Bromomethane (Methyl bromide)	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	1.7 U	0.01 U	0.01 U	0.25 U	0.4 U	5 U
Carbon disulfide	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Carbon tetrachloride	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Chlorobenzene	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Chloroethane	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Chloroform (Trichloromethane)	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Chloromethane (Methyl chloride)	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Dibromochloromethane	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
1,1-Dichloroethane	mg/L	0.11 J	0.001 U	0.001 U	0.025 U	0.04 U	0.26 J
1,2-Dichloroethane	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
1,1-Dichloroethene	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
cis-1,2-Dichloroethene	mg/L	4.4	0.00026 J	0.001 U	0.6	0.86	11
trans-1,2-Dichloroethene	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.012 J	0.5 U
1,2-Dichloropropane	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
cis-1,3-Dichloropropene	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
trans-1,3-Dichloropropene	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Ethylbenzene	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.67
2-Hexanone	mg/L	1.7 U	0.01 U	0.01 U	0.25 U	0.4 U	5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	1.7 U	0.01 U	0.01 U	0.25 U	0.4 U	5 U
Methylene chloride	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Styrene	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
1,1,2,2-Tetrachloroethane	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Tetrachloroethene	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Toluene	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	1.9
1,1,1-Trichloroethane	mg/L	0.38	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
1,1,2-Trichloroethane	mg/L	0.17 U	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Trichloroethene	mg/L	3	0.001 U	0.001 U	0.025 U	0.04 U	0.5 U
Vinyl chloride	mg/L	0.094 J	0.001 U	0.001 U	0.13	0.21	0.63
Xylenes (total)	mg/L	0.33 U	0.002 U	0.002 U	0.05 U	0.08 U	1.7

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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Anderson, Indiana

Sample Location:		***MW 31R***	***MW 37***	***MW 40***	***MW 40***	***MW 41***	***MW 41***
Sample ID:		***GW-101415-TP-030***	***GW-100915-TP-009***	***GW-042815-SM-014***	***GW-101315-TP-023***	***GW-042915-SM-017***	***GW-101215-TP-014***
Sample Date:		***10/14/2015***	***10/9/2015***	***4/28/2015***	***10/13/2015***	***4/29/2015***	***10/12/2015***
Parameters:	***Units***						
Volatile Organic Compounds							
Acetone	mg/L	2.5 U	0.01 U	3.3 U	2.5 U	3.3 U	3.3 U
Benzene	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
Bromodichloromethane	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
Bromoform	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
Bromomethane (Methyl bromide)	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	2.5 U	0.01 U	3.3 U	2.5 U	3.3 U	3.3 U
Carbon disulfide	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
Carbon tetrachloride	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
Chlorobenzene	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
Chloroethane	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
Chloroform (Trichloromethane)	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
Chloromethane (Methyl chloride)	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
Dibromochloromethane	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
1,1-Dichloroethane	mg/L	0.29	0.001 U	0.28 J	0.24 J	0.33 U	0.33 U
1,2-Dichloroethane	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
1,1-Dichloroethene	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
cis-1,2-Dichloroethene	mg/L	6.6	0.001 U	7.5	6.3	6.4	6.5
trans-1,2-Dichloroethene	mg/L	0.25 U	0.001 U	0.15 J	0.11 J	0.12 J	0.12 J
1,2-Dichloropropane	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
cis-1,3-Dichloropropene	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
trans-1,3-Dichloropropene	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
Ethylbenzene	mg/L	0.41	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
2-Hexanone	mg/L	2.5 U	0.01 U	3.3 U	2.5 U	3.3 U	3.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	2.5 U	0.01 U	3.3 U	2.5 U	3.3 U	3.3 U
Methylene chloride	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
Styrene	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
1,1,2,2-Tetrachloroethane	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
Tetrachloroethene	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
Toluene	mg/L	0.79	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
1,1,1-Trichloroethane	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
1,1,2-Trichloroethane	mg/L	0.25 U	0.001 U	0.33 U	0.25 U	0.33 U	0.33 U
Trichloroethene	mg/L	0.25 U	0.001 U	0.32 J	0.26	0.33 U	0.33 U
Vinyl chloride	mg/L	1.7	0.001 U	0.43	0.44	0.46	0.39
Xylenes (total)	mg/L	0.65	0.002 U	0.67 U	0.5 U	0.67 U	0.67 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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Anderson, Indiana

Sample Location:		***MW 41***	***MW 42***	***MW 42***	***MW 46***	***MW 49***	***MW 49***
Sample ID:		***GW-101215-TP-015***	***GW-042915-SM-016***	***GW-101215-TP-016***	***GW-100915-TP-008***	***GW-042815-SM-005***	***GW-101315-TP-027***
Sample Date:		***10/12/2015***	***4/29/2015***	***10/12/2015***	***10/9/2015***	***4/28/2015***	***10/13/2015***
Parameters:	***Units***	***(Duplicate)***					
Volatile Organic Compounds							
Acetone	mg/L	2.5 U	2 U	1.7 U	0.01 U	0.33 U	0.4 U
Benzene	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Bromodichloromethane	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Bromoform	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Bromomethane (Methyl bromide)	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	2.5 U	2 U	1.7 U	0.01 U	0.33 U	0.4 U
Carbon disulfide	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Carbon tetrachloride	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Chlorobenzene	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Chloroethane	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Chloroform (Trichloromethane)	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Chloromethane (Methyl chloride)	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Dibromochloromethane	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
1,1-Dichloroethane	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
1,2-Dichloroethane	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
1,1-Dichloroethene	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
cis-1,2-Dichloroethene	mg/L	6.2	4.1	4.4	0.001 U	0.71	0.86
trans-1,2-Dichloroethene	mg/L	0.11 J	0.19 J	0.19	0.001 U	0.019 J	0.024 J
1,2-Dichloropropane	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
cis-1,3-Dichloropropene	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
trans-1,3-Dichloropropene	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Ethylbenzene	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
2-Hexanone	mg/L	2.5 U	2 U	1.7 U	0.01 U	0.33 U	0.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	2.5 U	2 U	1.7 U	0.01 U	0.33 U	0.4 U
Methylene chloride	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Styrene	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Tetrachloroethene	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Toluene	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
1,1,1-Trichloroethane	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
1,1,2-Trichloroethane	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Trichloroethene	mg/L	0.25 U	0.2 U	0.17 U	0.001 U	0.033 U	0.04 U
Vinyl chloride	mg/L	0.39	0.13 J	0.14 J	0.001 U	0.033 U	0.012 J
Xylenes (total)	mg/L	0.5 U	0.4 U	0.33 U	0.002 U	0.067 U	0.08 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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Anderson, Indiana

Sample Location:		***MW 51***	***MW 51***	***MW 51***	***MW 56***	***MW 57***	***MW 58***
Sample ID:		***GW-042815-SM-012***	***GW-042815-SM-013***	***GW-100915-TP-010***	***GW-101915-TP-038***	***GW-101915-TP-036***	***GW-102015-TP-042***
Sample Date:		***4/28/2015***	***4/28/2015***	***10/9/2015***	***10/19/2015***	***10/19/2015***	***10/20/2015***
Parameters:	***Units***		***(Duplicate)***				
Volatile Organic Compounds							
Acetone	mg/L	0.057 U	0.057 U	0.05 U	0.01 U	0.01 U	0.057 U
Benzene	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
Bromodichloromethane	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
Bromoform	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
Bromomethane (Methyl bromide)	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.057 U	0.057 U	0.05 U	0.01 U	0.01 U	0.057 U
Carbon disulfide	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
Carbon tetrachloride	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
Chlorobenzene	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
Chloroethane	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
Chloroform (Trichloromethane)	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
Chloromethane (Methyl chloride)	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
Dibromochloromethane	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
1,1-Dichloroethane	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
1,2-Dichloroethane	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
1,1-Dichloroethene	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
cis-1,2-Dichloroethene	mg/L	0.0078	0.0077	0.0083	0.001 U	0.001 U	0.028
trans-1,2-Dichloroethene	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
1,2-Dichloropropane	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
cis-1,3-Dichloropropene	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
trans-1,3-Dichloropropene	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
Ethylbenzene	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
2-Hexanone	mg/L	0.057 U	0.057 U	0.05 U	0.01 U	0.01 U	0.057 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.057 U	0.057 U	0.05 U	0.01 U	0.01 U	0.057 U
Methylene chloride	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
Styrene	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
1,1,2,2-Tetrachloroethane	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
Tetrachloroethene	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
Toluene	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
1,1,1-Trichloroethane	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
1,1,2-Trichloroethane	mg/L	0.0057 U	0.0057 U	0.005 U	0.001 U	0.001 U	0.0057 U
Trichloroethene	mg/L	0.14	0.16	0.16	0.001 U	0.001 U	0.0057 U
Vinyl chloride	mg/L	0.0024 J	0.0026 J	0.0079	0.001 U	0.0037	0.16
Xylenes (total)	mg/L	0.011 U	0.011 U	0.01 U	0.002 U	0.002 U	0.011 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		***MW 58***	***MW 61***	***MW 64***	***MW 65***	***MW 66***	***MW 66***
Sample ID:		***GW-102015-TP-043***	***GW-100915-TP-011***	***GW-101315-TP-021***	***GW-100815-TP-005***	***GW-042715-SM-003***	***GW-101315-TP-022***
Sample Date:		***10/20/2015***	***10/9/2015***	***10/13/2015***	***10/8/2015***	***4/27/2015***	***10/13/2015***
Parameters:	***Units***	***(Duplicate)***					
Volatile Organic Compounds							
Acetone	mg/L	0.05 U	0.01 U	0.1 U	0.02 U	0.25 U	0.4 U
Benzene	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Bromodichloromethane	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Bromoform	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Bromomethane (Methyl bromide)	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.05 U	0.01 U	0.1 U	0.02 U	0.25 U	0.4 U
Carbon disulfide	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Carbon tetrachloride	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Chlorobenzene	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Chloroethane	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Chloroform (Trichloromethane)	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Chloromethane (Methyl chloride)	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Dibromochloromethane	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
1,1-Dichloroethane	mg/L	0.005 U	0.001 U	0.016	0.0025	0.026	0.059
1,2-Dichloroethane	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
1,1-Dichloroethene	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
cis-1,2-Dichloroethene	mg/L	0.028	0.001 U	0.25	0.051	0.45	1
trans-1,2-Dichloroethene	mg/L	0.005 U	0.001 U	0.022	0.0032	0.034	0.067
1,2-Dichloropropane	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
cis-1,3-Dichloropropene	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
trans-1,3-Dichloropropene	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Ethylbenzene	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
2-Hexanone	mg/L	0.05 U	0.01 U	0.1 U	0.02 U	0.25 U	0.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.05 U	0.01 U	0.1 U	0.02 U	0.25 U	0.4 U
Methylene chloride	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Styrene	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Tetrachloroethene	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Toluene	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
1,1,1-Trichloroethane	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
1,1,2-Trichloroethane	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Trichloroethene	mg/L	0.005 U	0.001 U	0.01 U	0.002 U	0.025 U	0.04 U
Vinyl chloride	mg/L	0.15	0.00068 J	0.03	0.0012 J	0.11	0.13
Xylenes (total)	mg/L	0.01 U	0.002 U	0.02 U	0.004 U	0.05 U	0.08 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		***MW 68***	***MW 68***	***MW 68***	***MW 68***	***MW 79***	***MW 79***
Sample ID:		***GW-042815-SM-007***	***GW-042815-SM-008***	***GW-101315-TP-024***	***GW-101315-TP-025***	***GW-042915-SM-020***	***GW-101315-TP-026***
Sample Date:		***4/28/2015***	***4/28/2015***	***10/13/2015***	***10/13/2015***	***4/29/2015***	***10/13/2015***
Parameters:	***Units***		***(Duplicate)***		***(Duplicate)***		
Volatile Organic Compounds							
Acetone	mg/L	2.5 U	2.5 U	2 U	2 U	1 U	0.83 U
Benzene	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
Bromodichloromethane	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
Bromoform	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
Bromomethane (Methyl bromide)	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	2.5 U	2.5 U	2 U	2 U	1 U	0.83 U
Carbon disulfide	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
Carbon tetrachloride	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
Chlorobenzene	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
Chloroethane	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
Chloroform (Trichloromethane)	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
Chloromethane (Methyl chloride)	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
Dibromochloromethane	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
1,1-Dichloroethane	mg/L	0.15 J	0.16 J	0.15 J	0.13 J	0.1 U	0.083 U
1,2-Dichloroethane	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
1,1-Dichloroethene	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
cis-1,2-Dichloroethene	mg/L	5.8	5.9	5.1	4.9	2.4	2
trans-1,2-Dichloroethene	mg/L	0.13 J	0.15 J	0.15 J	0.14 J	0.099 J	0.079 J
1,2-Dichloropropane	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
cis-1,3-Dichloropropene	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
trans-1,3-Dichloropropene	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
Ethylbenzene	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
2-Hexanone	mg/L	2.5 U	2.5 U	2 U	2 U	1 U	0.83 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	2.5 U	2.5 U	2 U	2 U	1 U	0.83 U
Methylene chloride	mg/L	0.25 U	0.11 J	0.2 U	0.2 U	0.1 U	0.083 U
Styrene	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
1,1,2,2-Tetrachloroethane	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
Tetrachloroethene	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
Toluene	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
1,1,1-Trichloroethane	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
1,1,2-Trichloroethane	mg/L	0.25 U	0.25 U	0.2 U	0.2 U	0.1 U	0.083 U
Trichloroethene	mg/L	1.5	1.5	1.4	1.3	0.1 U	0.083 U
Vinyl chloride	mg/L	0.18 J	0.17 J	0.16 J	0.12 J	0.15	0.13
Xylenes (total)	mg/L	0.5 U	0.5 U	0.4 U	0.4 U	0.2 U	0.17 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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Anderson, Indiana

Sample Location:		***MW 80***	***MW 81***	***MW 82***	***MW 83***	***MW 84***	***MW 85***
Sample ID:		***GW-100815-TP-001***	***GW-100815-TP-006***	***GW-101215-TP-019***	***GW-100915-TP-012***	***GW-101215-TP-017***	***GW-042715-SM-001***
Sample Date:		***10/8/2015***	***10/8/2015***	***10/12/2015***	***10/9/2015***	***10/12/2015***	***4/27/2015***
Parameters:	***Units***						
Volatile Organic Compounds							
Acetone	mg/L	0.017 U	0.08 U	0.01 U	0.01 U	0.01 U	5 U
Benzene	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Bromodichloromethane	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Bromoform	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Bromomethane (Methyl bromide)	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.017 U	0.08 U	0.01 U	0.01 U	0.01 U	5 U
Carbon disulfide	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Carbon tetrachloride	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Chlorobenzene	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Chloroethane	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Chloroform (Trichloromethane)	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Chloromethane (Methyl chloride)	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Dibromochloromethane	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
1,1-Dichloroethane	mg/L	0.0017 U	0.0032 J	0.001 U	0.001 U	0.001 U	0.33 J
1,2-Dichloroethane	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
1,1-Dichloroethene	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
cis-1,2-Dichloroethene	mg/L	0.0012 J	0.19	0.00041 J	0.001 U	0.00027 J	9.5
trans-1,2-Dichloroethene	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.2 J
1,2-Dichloropropane	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
cis-1,3-Dichloropropene	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
trans-1,3-Dichloropropene	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Ethylbenzene	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
2-Hexanone	mg/L	0.017 U	0.08 U	0.01 U	0.01 U	0.01 U	5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.017 U	0.08 U	0.01 U	0.01 U	0.01 U	5 U
Methylene chloride	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Styrene	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
1,1,2,2-Tetrachloroethane	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Tetrachloroethene	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Toluene	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
1,1,1-Trichloroethane	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
1,1,2-Trichloroethane	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Trichloroethene	mg/L	0.0017 U	0.008 U	0.001 U	0.001 U	0.001 U	0.5 U
Vinyl chloride	mg/L	0.04	0.062	0.001 U	0.0037	0.001 U	0.37 J
Xylenes (total)	mg/L	0.0033 U	0.016 U	0.002 U	0.002 U	0.002 U	1 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
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Anderson, Indiana

Sample Location:		***MW 85***	***MW 86***	***MW 88***	***MW 88***	***MW89-11***	***MW89-11***
Sample ID:		***GW-101915-TP-035***	***GW-100815-TP-004***	***GW-100815-TP-002***	***GW-100815-TP-003***	***GW-042815-SM-006***	***GW-101515-TP-033***
Sample Date:		***10/19/2015***	***10/8/2015***	***10/8/2015***	***10/8/2015***	***4/28/2015***	***10/15/2015***
Parameters:	***Units***				***(Duplicate)***		
Volatile Organic Compounds							
Acetone	mg/L	3.3 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzene	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	3.3 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon disulfide	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon tetrachloride	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.38	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	10	0.001 U	0.001 U	0.001 U	0.0003 J	0.001 U
trans-1,2-Dichloroethene	mg/L	0.22 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Hexanone	mg/L	3.3 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	3.3 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methylene chloride	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Styrene	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0011
1,1,2-Trichloroethane	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.33 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.44	0.001 U	0.001	0.00098 J	0.001 U	0.001 U
Xylenes (total)	mg/L	0.67 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.

Table 6

Summary of Groundwater Analytical Data - VOCs
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		***MW97-14***
Sample ID:		***GW-102015-TP-039***
Sample Date:		***10/20/2015***
Parameters:	***Units***	
Volatile Organic Compounds		
Acetone	mg/L	0.01 U
Benzene	mg/L	0.001 U
Bromodichloromethane	mg/L	0.001 U
Bromoform	mg/L	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U
Carbon disulfide	mg/L	0.001 U
Carbon tetrachloride	mg/L	0.001 U
Chlorobenzene	mg/L	0.001 U
Chloroethane	mg/L	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U
Dibromochloromethane	mg/L	0.001 U
1,1-Dichloroethane	mg/L	0.001 U
1,2-Dichloroethane	mg/L	0.001 U
1,1-Dichloroethene	mg/L	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U
1,2-Dichloropropane	mg/L	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U
Ethylbenzene	mg/L	0.001 U
2-Hexanone	mg/L	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U
Methylene chloride	mg/L	0.001 U
Styrene	mg/L	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U
Tetrachloroethene	mg/L	0.001 U
Toluene	mg/L	0.001 U
1,1,1-Trichloroethane	mg/L	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U
Trichloroethene	mg/L	0.001 U
Vinyl chloride	mg/L	0.001 U
Xylenes (total)	mg/L	0.002 U

Notes:
mg/L - milligram per litre
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.

Table 7

Summary of Surface Water Analytical Data - VOCs
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		***Pond Intake***	***Pond Intake***	***Pond Intake***	***Pond Intake***	***Pond North***	***Pond North***
Sample ID:		***SW-042715-SM-001***	***SW-071015-SM-002***	***SW-071015-SM-003***	***SW-102015-TP-040***	***SW-042715-SM-002***	***SW-071015-SM-001***
Sample Date:		***4/27/2015***	***7/10/2015***	***7/10/2015***	***10/20/2015***	***4/27/2015***	***7/10/2015***
Parameters:	***Units***			***(Duplicate)***			
Volatile Organic Compounds							
Acetone	mg/L	0.013 U	0.033 U	0.04 U	0.01 U	0.08 U	0.033 U
Benzene	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Bromodichloromethane	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Bromoform	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Bromomethane (Methyl bromide)	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.013 U	0.033 U	0.04 U	0.01 U	0.08 U	0.033 U
Carbon disulfide	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Carbon tetrachloride	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Chlorobenzene	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Chloroethane	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Chloroform (Trichloromethane)	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Chloromethane (Methyl chloride)	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Dibromochloromethane	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
1,1-Dichloroethane	mg/L	0.0014	0.0054	0.0058	0.0018	0.014	0.0052
1,2-Dichloroethane	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
1,1-Dichloroethene	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
cis-1,2-Dichloroethene	mg/L	0.033	0.1	0.11	0.037	0.26	0.093
trans-1,2-Dichloroethene	mg/L	0.0011 J	0.0034	0.0035 J	0.00085 J	0.014	0.0031 J
1,2-Dichloropropane	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
cis-1,3-Dichloropropene	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
trans-1,3-Dichloropropene	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Ethylbenzene	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
2-Hexanone	mg/L	0.013 U	0.033 U	0.04 U	0.01 U	0.08 U	0.033 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.013 U	0.033 U	0.04 U	0.01 U	0.08 U	0.033 U
Methylene chloride	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Styrene	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
1,1,2,2-Tetrachloroethane	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Tetrachloroethene	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Toluene	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
1,1,1-Trichloroethane	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
1,1,2-Trichloroethane	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Trichloroethene	mg/L	0.0013 U	0.0033 U	0.004 U	0.001 U	0.008 U	0.0033 U
Vinyl chloride	mg/L	0.0053	0.008	0.0079	0.0065	0.0091	0.0077
Xylenes (total)	mg/L	0.0025 U	0.0067 U	0.008 U	0.002 U	0.016 U	0.0067 U

Notes:
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.

Table 7

Summary of Surface Water Analytical Data - VOCs
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		***Pond North***
Sample ID:		***SW-102015-TP-041***
Sample Date:		***10/20/2015***
Parameters:	***Units***	
Volatile Organic Compounds		
Acetone	mg/L	0.014 U
Benzene	mg/L	0.0014 U
Bromodichloromethane	mg/L	0.0014 U
Bromoform	mg/L	0.0014 U
Bromomethane (Methyl bromide)	mg/L	0.0014 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.014 U
Carbon disulfide	mg/L	0.0014 U
Carbon tetrachloride	mg/L	0.0014 U
Chlorobenzene	mg/L	0.0014 U
Chloroethane	mg/L	0.0014 U
Chloroform (Trichloromethane)	mg/L	0.0014 U
Chloromethane (Methyl chloride)	mg/L	0.0014 U
Dibromochloromethane	mg/L	0.0014 U
1,1-Dichloroethane	mg/L	0.0017
1,2-Dichloroethane	mg/L	0.0014 U
1,1-Dichloroethene	mg/L	0.0014 U
cis-1,2-Dichloroethene	mg/L	0.035
trans-1,2-Dichloroethene	mg/L	0.00083 J
1,2-Dichloropropane	mg/L	0.0014 U
cis-1,3-Dichloropropene	mg/L	0.0014 U
trans-1,3-Dichloropropene	mg/L	0.0014 U
Ethylbenzene	mg/L	0.0014 U
2-Hexanone	mg/L	0.014 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.014 U
Methylene chloride	mg/L	0.0014 U
Styrene	mg/L	0.0014 U
1,1,2,2-Tetrachloroethane	mg/L	0.0014 U
Tetrachloroethene	mg/L	0.0014 U
Toluene	mg/L	0.0014 U
1,1,1-Trichloroethane	mg/L	0.0014 U
1,1,2-Trichloroethane	mg/L	0.0014 U
Trichloroethene	mg/L	0.0014 U
Vinyl chloride	mg/L	0.0047
Xylenes (total)	mg/L	0.0029 U

Notes:
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.

Table 8

Preliminary Screening for Anaerobic Biodegradation Process
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Analysis	*Concentration in Most Contaminated Zone*	*Value*	*AOC 1- South Court Plume*	*Former WWTP Plume*
Oxygen*	<0.5 mg/L >5mg/L	3 -3	3	3
Nitrate*	< 1 mg/L	2	2	2
Ferrous Iron*	> 1 mg/L	3	3	3
Sulfate*	<20 mg/L	2	0	0
Sulfide*	>1mg/L	3	0	0
Methane*	<0.5 mg/L >0.5mg/L	0 3	0	0
ORP*	<50 mV <-100mV	1 2	1	1
pH*	5 < pH < 9 5 > pH >9	0 -2	0	0
TOC	> 20 mg/L	2	0	0
Temperature*	>20°C	1	0	0
Alkalinity	>2x background	1	0	0
Chloride*	>2x background	2	0	2
BTEX*	>0.1 mg/L	2	0	0
TCE*	Material released Daughter product of PCE	0 2	0	0
DCE*	Material released Daughter product of TCE/TCA	0 2	2	2
VC*	Material released Daughter product of DCE	0 2	2	2
1,1,1-TCA*	Material released	0	0	0
DCA	Daughter product of TCA	2	2	2
Chloroethane*	Daughter product of DCA or VC	2	0	0
Ethene/Ethane	>0.01mg/L >0.1 mg/L	2 3	2	2
Total Points Awarded:			**17**	**19**

Notes:
* required
Score interpretation:
Score 0 to 5 means there is inadequate evidence for anaerobic biodegradation
Score 6 to 14 means there is limited evidence for anaerobic biodegradation
Score 15 to 20 means there is adequate evidence for anaerobic biodegradation
Score > 20 means there is strong evidence for anaerobic biodegradation (U.S. EPA, 1998)

Reference:
U.S. EPA. 1998. Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water, Office of Research and Development, Washington, DC. EPA/600/R-98/128. September, 1998.

Table 9

Trend Test Summary
2015 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Location	Units	Date Range	Analyte		
			TCE	cis-1,2-DCE	Vinyl chloride
MW-2	mg/L	2007 -- 2015	--	--	--
MW 3	mg/L	2005 -- 2015	NT or Decreasing	NT or Decreasing	NT or Decreasing [1]
MW-4	mg/L	2005 -- 2015	--	**Increasing**	NT or Decreasing
MW 8	mg/L	2005 -- 2015	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 12	mg/L	2005 -- 2015	NT or Decreasing	NT or Decreasing	--
MW 14	mg/L	2005 -- 2015	--	NT or Decreasing	NT or Decreasing
MW 28	mg/L	2005 -- 2015	--	--	**Increasing**
MW 31R	mg/L	2005 -- 2015	NT or Decreasing [1]	NT or Decreasing	NT or Decreasing
MW 37	mg/L	2005 -- 2015	--	--	--
MW 40	mg/L	2005 -- 2015	--	NT or Decreasing	NT or Decreasing
MW 41	mg/L	2005 -- 2015	--	NT or Decreasing	**Increasing**
MW 42	mg/L	2005 -- 2015	--	NT or Decreasing	NT or Decreasing
MW 46	mg/L	2005 -- 2015	--	--	--
MW 49	mg/L	2005 -- 2015	--	**Increasing**	NT or Decreasing
MW 51	mg/L	2008 -- 2015	NT or Decreasing	NT or Decreasing	--
MW 56	mg/L	2005 -- 2015	--	--	--
MW 57	mg/L	2005 -- 2015	--	--	--
MW 58	mg/L	2005 -- 2015	--	--	**Increasing**
MW 61	mg/L	2005 -- 2015	--	--	--
MW 64	mg/L	2005 -- 2015	--	--	**Increasing**
MW 65	mg/L	2005 -- 2015	--	NT or Decreasing	NT or Decreasing
MW 66	mg/L	2005 -- 2015	--	--	**Increasing**
MW 68	mg/L	2005 -- 2015	**Increasing**	NT or Decreasing	NT or Decreasing
MW 79	mg/L	2005 -- 2015	--	**Increasing**	NT or Decreasing
MW 80	mg/L	2005 -- 2015	--	--	NT or Decreasing
MW 81	mg/L	2005 -- 2015	--	--	**Increasing**
MW 82	mg/L	2005 -- 2015	--	--	--
MW 83	mg/L	2005 -- 2015	--	--	--
MW 85	mg/L	2008 -- 2015	--	--	NT or Decreasing
MW 86	mg/L	2010 -- 2015	--	--	--
MW 88	mg/L	2010 -- 2015	--	--	--
MW 89-11	mg/L	2011 -- 2015	--	--	--
Pond Intake	mg/L	2005 -- 2015	--	--	--
Pond North	mg/L	2005 -- 2015	--	--	--

Notes:
[1] Tend test was calculated using detected values only, due to elevated detection limits for non-detects.
-- Trend test not performed due to infrequent detections (i.e., fewer than 75 percent detects).
NT or Decreasing - A statistically-significant (90 percent confidence) increasing trend was not found. Analyte concentrations may be stable or decreasing over time. (Per approved Monitoring Plan, a 1-sided test is performed).

Appendices

Appendix A
Data Quality Assessment and Validation Reports

Appendix A.1
April 2015 Data Validation Report

CONESTOGA-ROVERS & ASSOCIATES

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MEMORANDUM

TO:	Shannon Richardson	REF. NO.:	017302-T07
FROM:	Kathy Willy/adh/53	DATE:	May 21, 2015
CC:	Rob Catallo, Deb Andrasko		
RE:	**Analytical Results and Reduced Validation Site-Wide Groundwater Monitoring RACER Trust - MLK Boulevard Facility Anderson, Indiana April 2015**		

1.0 Introduction

The following document details a reduced validation of analytical results for groundwater samples collected in support of the Site-Wide Groundwater Monitoring at the Anderson, Indiana Site during April 2015. Samples were submitted to TestAmerica Laboratory, located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2.

The samples were analyzed for volatile organic compounds (VOCs) using SW-846 Method 8260B referenced from "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986, with all subsequent revisions.

Standard Conestoga-Rovers & Associates (CRA) report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control samples (LCS), matrix spikes (MS), and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Quality Assurance Project Plan (QAPP) for the Resource Conservation and Recovery Act (RCRA) Facility Investigation at GM Anderson, Indiana Facility", IND 980 700 801, Revision 2, October 14, 1997

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

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Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2.0 Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in the method. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3.0 Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4.0 Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the above criteria.

5.0 Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained all compounds of interest. All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

6.0 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the extraction or digestion process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

MS/MSD analyses were performed as specified in Table 1

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

7.0 Field QA/QC Samples

The field QA/QC consisted of one trip blank sample, three rinse blank samples, and three field duplicate sample sets.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest with the exception of a low concentration of methylene chloride. Associated sample results with concentrations similar to that found in the trip blank were qualified as non-detect. A summary of qualified results is presented in Table 3.

Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the Site, and cleanliness of sample containers, three rinse blanks were submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest with the exception of a low concentration of acetone and methylene chloride. Associated sample results with concentrations similar to that found in the trip blank were qualified as non-detect. A summary of qualified results is presented in Table 4.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, three field duplicate samples were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the practical quantitation limit (PQL), the evaluation criterion is one times the PQL value for water samples.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

8.0 Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the PQL but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the PQL in Table 2.

9.0 Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
SITE-WIDE GROUNDWATER MONITORING
RACER TRUST - MLK BOULEVARD FACILITY
ANDERSON, INDIANA
APRIL 2015

Sample Identification	*Location*	*Matrix*	*Collection Date (mm/dd/yyyy)*	*Collection Time (hr:min)*	*Analysis/ Parameters VOCs*	*Comments*
SW-042715-SM-001	Pond Intake	Surface Water	4/27/2015	10:06	X	
GW-042815-SM-008	MW 68	Groundwater	4/28/2015	10:00	X	Field duplicate of sample GW-042815-SM-007
GW-042815-SM-009	MW 31R	Groundwater	4/28/2015	10:43	X	
GW-042815-SM-010	MW 3	Groundwater	4/28/2015	11:12	X	
GW-042815-SM-011	MW 8	Groundwater	4/28/2015	11:47	X	
GW-042815-SM-012	MW 51	Groundwater	4/28/2015	12:52	X	MS/MSD
GW-042815-SM-013	MW 51	Groundwater	4/28/2015	12:57	X	Field duplicate of sample GW-042815-SM-012
GW-042815-SM-014	MW 40	Groundwater	4/28/2015	13:37	X	
RB-042815-SM-001	-	Groundwater	4/28/2015	08:30	X	Equipment Blank
RB-042815-SM-002	-	Groundwater	4/28/2015	13:45	X	Equipment Blank
GW-042915-SM-015	MW 28	Groundwater	4/29/2015	08:33	X	
SW-042715-SM-002	Pond North	Surface Water	4/27/2015	10:10	X	
GW-042915-SM-016	MW 42	Groundwater	4/29/2015	09:17	X	
GW-042915-SM-017	MW 41	Groundwater	4/29/2015	09:37	X	
GW-042915-SM-018	MW 14	Groundwater	4/29/2015	10:17	X	MS/MSD
GW-042915-SM-019	MW 14	Groundwater	4/29/2015	10:20	X	Field duplicate of sample GW-042915-SM-018
GW-042915-SM-020	MW 79	Groundwater	4/29/2015	11:17	X	
RB-042915-SM-003	-	Groundwater	4/29/2015	10:30	X	Equipment Blank
TB-042915-SM-001	-	Groundwater	4/29/2015	-	X	Trip Blank
GW-042715-SM-001	MW 85	Groundwater	4/27/2015	10:17	X	
GW-042715-SM-002	MW-4	Groundwater	4/27/2015	11:03	X	
GW-042715-SM-003	MW 66	Groundwater	4/27/2015	11:57	X	
GW-042715-SM-004	MW 12	Groundwater	4/27/2015	12:47	X	
GW-042815-SM-005	MW 49	Groundwater	4/28/2015	08:17	X	
GW-042815-SM-006	MW89-11	Groundwater	4/28/2015	09:08	X	
GW-042815-SM-007	MW 68	Groundwater	4/28/2015	09:57	X	MS/MSD

Notes:

VOCs - Volatile Organic Compounds
MS/MSD - Matrix Spike/Matrix Spike Duplicate

TABLE 2

ANALYTICAL RESULTS SUMMARY
SITE-WIDE GROUNDWATER MONITORING
RACER TRUST - MLK BOULEVARD FACILITY
ANDERSON, INDIANA
APRIL 2015

Sample Location:		*Equipment Blank*	*Equipment Blank*	*Equipment Blank*	*MW 3*	*MW 8*	*MW 12*	*MW 14*
Sample ID:		*RB-042815-SM-001*	*RB-042815-SM-002*	*RB-042915-SM-003*	*GW-042815-SM-010*	*GW-042815-SM-011*	*GW-042715-SM-004*	*GW-042915-SM-018*
Sample Date:		*4/28/2015*	*4/28/2015*	*4/29/2015*	*4/28/2015*	*4/28/2015*	*4/27/2015*	*4/29/2015*
Matrix Type:		*WQ-EB (other)*	*WQ-EB (other)*	*WQ-EB (other)*	*WG-N*	*WG-N*	*WG-N*	*WG-N*
Parameters	***Units***							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	420	170 U	5.7 U	200 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	200 J	170 U	5.7 U	200 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	670 U	330 U	11 U	400 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	3300 U	1700 U	57 U	2000 U
2-Hexanone	µg/L	10 U	10 U	10 U	3300 U	1700 U	57 U	2000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	3300 U	1700 U	57 U	2000 U
Acetone	µg/L	10 U	1.9 J	10 U	3300 U	1700 U	57 U	2000 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	4500	3800	130	4500
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
SITE-WIDE GROUNDWATER MONITORING
RACER TRUST - MLK BOULEVARD FACILITY
ANDERSON, INDIANA
APRIL 2015

Sample Location:		*Equipment Blank*	*Equipment Blank*	*Equipment Blank*	*MW 3*	*MW 8*	*MW 12*	*MW 14*
Sample ID:		*RB-042815-SM-001*	*RB-042815-SM-002*	*RB-042915-SM-003*	*GW-042815-SM-010*	*GW-042815-SM-011*	*GW-042715-SM-004*	*GW-042915-SM-018*
Sample Date:		*4/28/2015*	*4/28/2015*	*4/29/2015*	*4/28/2015*	*4/28/2015*	*4/27/2015*	*4/29/2015*
Matrix Type:		*WQ-EB (other)*	*WQ-EB (other)*	*WQ-EB (other)*	*WG-N*	*WG-N*	*WG-N*	*WG-N*
Parameters	***Units***							
Volatile Organic Compounds-Continued								
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Methyl acetate	µg/L	10 U	10 U	10 U	3300 U	1700 U	57 U	2000 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Methyl tert butyl ether (MTBE)	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Methylene chloride	µg/L	1.0 U	0.34 J	1.0 U	140 J	70 J	5.7 U	200 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	1.8 J	200 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	8300	330	5.7 U	200 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Trifluorotrichloroethane (Freon 113)	µg/L	1.0 U	1.0 U	1.0 U	330 U	170 U	5.7 U	200 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	330 U	1900	5.7 U	150 J
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	670 U	330 U	11 U	400 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
SITE-WIDE GROUNDWATER MONITORING
RACER TRUST - MLK BOULEVARD FACILITY
ANDERSON, INDIANA
APRIL 2015

Sample Location:		*MW 14*	*MW 28*	*MW 31R*	*MW 40*	*MW 41*	*MW 42*	*MW 49*
Sample ID:		*GW-042915-SM-019*	*GW-042915-SM-015*	*GW-042815-SM-009*	*GW-042815-SM-014*	*GW-042915-SM-017*	*GW-042915-SM-016*	*GW-042815-SM-005*
Sample Date:		*4/29/2015*	*4/29/2015*	*4/28/2015*	*4/28/2015*	*4/29/2015*	*4/29/2015*	*4/28/2015*
Matrix Type:		*WG-FD (Duplicate)*	*WG-N*	*WG-N*	*WG-N*	*WG-N*	*WG-N*	*WG-N*
Parameters	***Units***							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
1,1,2,2-Tetrachloroethane	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
1,1,2-Trichloroethane	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
1,1-Dichloroethane	µg/L	200 U	25 U	260 J	280 J	330 U	200 U	33 U
1,1-Dichloroethene	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
1,2,4-Trichlorobenzene	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	400 U	50 U	1000 U	670 U	670 U	400 U	67 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
1,2-Dichlorobenzene	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
1,2-Dichloroethane	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
1,2-Dichloropropane	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
1,3-Dichlorobenzene	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
1,4-Dichlorobenzene	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	2000 U	250 U	5000 U	3300 U	3300 U	2000 U	330 U
2-Hexanone	µg/L	2000 U	250 U	5000 U	3300 U	3300 U	2000 U	330 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	2000 U	250 U	5000 U	3300 U	3300 U	2000 U	330 U
Acetone	µg/L	2000 U	250 U	5000 U	3300 U	3300 U	2000 U	330 U
Benzene	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Bromodichloromethane	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Bromoform	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Bromomethane (Methyl bromide)	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Carbon disulfide	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Carbon tetrachloride	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Chlorobenzene	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Chloroethane	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Chloroform (Trichloromethane)	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Chloromethane (Methyl chloride)	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
cis-1,2-Dichloroethene	µg/L	4800	600	11000	7500	6400	4100	710
cis-1,3-Dichloropropene	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Cyclohexane	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Dibromochloromethane	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Dichlorodifluoromethane (CFC-12)	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Ethylbenzene	µg/L	200 U	25 U	670	330 U	330 U	200 U	33 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
SITE-WIDE GROUNDWATER MONITORING
RACER TRUST - MLK BOULEVARD FACILITY
ANDERSON, INDIANA
APRIL 2015

Sample Location:		*MW 14*	*MW 28*	*MW 31R*	*MW 40*	*MW 41*	*MW 42*	*MW 49*
Sample ID:		*GW-042915-SM-019*	*GW-042915-SM-015*	*GW-042815-SM-009*	*GW-042815-SM-014*	*GW-042915-SM-017*	*GW-042915-SM-016*	*GW-042815-SM-005*
Sample Date:		*4/29/2015*	*4/29/2015*	*4/28/2015*	*4/28/2015*	*4/29/2015*	*4/29/2015*	*4/28/2015*
Matrix Type:		*WG-FD (Duplicate)*	*WG-N*	*WG-N*	*WG-N*	*WG-N*	*WG-N*	*WG-N*
Parameters	***Units***							
Volatile Organic Compounds-Continued								
Isopropyl benzene	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Methyl acetate	µg/L	2000 U	250 U	5000 U	3300 U	3300 U	2000 U	330 U
Methyl cyclohexane	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Methyl tert butyl ether (MTBE)	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Methylene chloride	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Styrene	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Tetrachloroethene	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Toluene	µg/L	200 U	25 U	1900	330 U	330 U	200 U	33 U
trans-1,2-Dichloroethene	µg/L	200 U	25 U	500 U	150 J	120 J	190 J	19 J
trans-1,3-Dichloropropene	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Trichloroethene	µg/L	200 U	25 U	500 U	320 J	330 U	200 U	33 U
Trichlorofluoromethane (CFC-11)	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Trifluorotrichloroethane (Freon 113)	µg/L	200 U	25 U	500 U	330 U	330 U	200 U	33 U
Vinyl chloride	µg/L	150 J	130	630	430	460	130 J	33 U
Xylenes (total)	µg/L	400 U	50 U	1700	670 U	670 U	400 U	67 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
SITE-WIDE GROUNDWATER MONITORING
RACER TRUST - MLK BOULEVARD FACILITY
ANDERSON, INDIANA
APRIL 2015

Sample Location:		*MW 51*	*MW 51*	*MW 66*	*MW 68*	*MW 68*	*MW 79*	*MW 85*
Sample ID:		*GW-042815-SM-012*	*GW-042815-SM-013*	*GW-042715-SM-003*	*GW-042815-SM-007*	*GW-042815-SM-008*	*GW-042915-SM-020*	*GW-042715-SM-001*
Sample Date:		*4/28/2015*	*4/28/2015*	*4/27/2015*	*4/28/2015*	*4/28/2015*	*4/29/2015*	*4/27/2015*
Matrix Type:		*WG-N*	*WG-FD (Duplicate)*	*WG-N*	*WG-N*	*WG-FD (Duplicate)*	*WG-N*	*WG-N*
Parameters	***Units***							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
1,1,2,2-Tetrachloroethane	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
1,1,2-Trichloroethane	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
1,1-Dichloroethane	µg/L	5.7 U	5.7 U	26	150 J	160 J	100 U	330 J
1,1-Dichloroethene	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
1,2,4-Trichlorobenzene	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	11 U	11 U	50 U	500 U	500 U	200 U	1000 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
1,2-Dichlorobenzene	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
1,2-Dichloroethane	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
1,2-Dichloropropane	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
1,3-Dichlorobenzene	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
1,4-Dichlorobenzene	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	57 U	57 U	250 U	2500 U	2500 U	1000 U	5000 U
2-Hexanone	µg/L	57 U	57 U	250 U	2500 U	2500 U	1000 U	5000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	57 U	57 U	250 U	2500 U	2500 U	1000 U	5000 U
Acetone	µg/L	57 U	57 U	250 U	2500 U	2500 U	1000 U	5000 U
Benzene	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Bromodichloromethane	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Bromoform	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Bromomethane (Methyl bromide)	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Carbon disulfide	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Carbon tetrachloride	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Chlorobenzene	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Chloroethane	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Chloroform (Trichloromethane)	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Chloromethane (Methyl chloride)	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
cis-1,2-Dichloroethene	µg/L	7.8	7.7	450	5800	5900	2400	9500
cis-1,3-Dichloropropene	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Cyclohexane	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Dibromochloromethane	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Ethylbenzene	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
SITE-WIDE GROUNDWATER MONITORING
RACER TRUST - MLK BOULEVARD FACILITY
ANDERSON, INDIANA
APRIL 2015

Sample Location:		*MW 51*	*MW 51*	*MW 66*	*MW 68*	*MW 68*	*MW 79*	*MW 85*
Sample ID:		*GW-042815-SM-012*	*GW-042815-SM-013*	*GW-042715-SM-003*	*GW-042815-SM-007*	*GW-042815-SM-008*	*GW-042915-SM-020*	*GW-042715-SM-001*
Sample Date:		*4/28/2015*	*4/28/2015*	*4/27/2015*	*4/28/2015*	*4/28/2015*	*4/29/2015*	*4/27/2015*
Matrix Type:		*WG-N*	*WG-FD (Duplicate)*	*WG-N*	*WG-N*	*WG-FD (Duplicate)*	*WG-N*	*WG-N*
Parameters	***Units***							
Volatile Organic Compounds-Continued								
Isopropyl benzene	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Methyl acetate	µg/L	57 U	57 U	250 U	2500 U	2500 U	1000 U	5000 U
Methyl cyclohexane	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Methyl tert butyl ether (MTBE)	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Methylene chloride	µg/L	5.7 U	5.7 U	25 U	250 U	110 J	100 U	500 U
Styrene	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Tetrachloroethene	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Toluene	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
trans-1,2-Dichloroethene	µg/L	5.7 U	5.7 U	34	130 J	150 J	99 J	200 J
trans-1,3-Dichloropropene	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Trichloroethene	µg/L	140	160	25 U	1500	1500	100 U	500 U
Trichlorofluoromethane (CFC-11)	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Trifluorotrichloroethane (Freon 113)	µg/L	5.7 U	5.7 U	25 U	250 U	250 U	100 U	500 U
Vinyl chloride	µg/L	2.4 J	2.6 J	110	180 J	170 J	150	370 J
Xylenes (total)	µg/L	11 U	11 U	50 U	500 U	500 U	200 U	1000 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
SITE-WIDE GROUNDWATER MONITORING
RACER TRUST - MLK BOULEVARD FACILITY
ANDERSON, INDIANA
APRIL 2015

Sample Location:		*MW-4*	*MW89-11*	*Pond Intake*	*Pond North*	*Trip Blank*
Sample ID:		*GW-042715-SM-002*	*GW-042815-SM-006*	*SW-042715-SM-001*	*SW-042715-SM-002*	*TB-042915-SM-001*
Sample Date:		*4/27/2015*	*4/28/2015*	*4/27/2015*	*4/27/2015*	*4/29/2015*
Matrix Type:		*WG-N*	*WG-N*	*WS-N*	*WS-N*	*WQ-TB (other)*
Parameters	***Units***					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
1,1-Dichloroethane	µg/L	360 J	1.0 U	1.4	14	1.0 U
1,1-Dichloroethene	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1000 U	2.0 U	2.5 U	16 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
1,2-Dichloroethane	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
1,2-Dichloropropane	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5000 U	10 U	13 U	80 U	10 U
2-Hexanone	µg/L	5000 U	10 U	13 U	80 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5000 U	10 U	13 U	80 U	10 U
Acetone	µg/L	5000 U	10 U	13 U	80 U	10 U
Benzene	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Bromodichloromethane	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Bromoform	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Carbon disulfide	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Carbon tetrachloride	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Chlorobenzene	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Chloroethane	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	10000	0.30 J	33	260	1.0 U
cis-1,3-Dichloropropene	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Cyclohexane	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Dibromochloromethane	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Ethylbenzene	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
SITE-WIDE GROUNDWATER MONITORING
RACER TRUST - MLK BOULEVARD FACILITY
ANDERSON, INDIANA
APRIL 2015

Sample Location:		*MW-4*	*MW89-11*	*Pond Intake*	*Pond North*	*Trip Blank*
Sample ID:		*GW-042715-SM-002*	*GW-042815-SM-006*	*SW-042715-SM-001*	*SW-042715-SM-002*	*TB-042915-SM-001*
Sample Date:		*4/27/2015*	*4/28/2015*	*4/27/2015*	*4/27/2015*	*4/29/2015*
Matrix Type:		*WG-N*	*WG-N*	*WS-N*	*WS-N*	*WQ-TB (other)*
Parameters	***Units***					
Volatile Organic Compounds-Continued						
Isopropyl benzene	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Methyl acetate	µg/L	5000 U	10 U	13 U	80 U	10 U
Methyl cyclohexane	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Methylene chloride	µg/L	500 U	1.0 U	1.3 U	8.0 U	0.91 J
Styrene	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Tetrachloroethene	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Toluene	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	250 J	1.0 U	1.1 J	14	1.0 U
trans-1,3-Dichloropropene	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Trichloroethene	µg/L	500	1.0 U	1.3 U	8.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	500 U	1.0 U	1.3 U	8.0 U	1.0 U
Vinyl chloride	µg/L	420 J	1.0 U	5.3	9.1	1.0 U
Xylenes (total)	µg/L	1000 U	2.0 U	2.5 U	16 U	2.0 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit

TABLE 3

QUALIFIED SAMPLE DATA DUE TO ANALYTE CONCENTRATIONS IN THE TRIP BLANKS
SITE-WIDE GROUNDWATER MONITORING
RACER TRUST - MLK BOULEVARD FACILITY
ANDERSON, INDIANA
APRIL 2015

Parameter	*Blank Date*	*Analyte*	*Blank Result*	*Associated Sample ID*	*Original Result*	*Qualified Result*	*Units*
Volatile Organic Compounds	04/29/2015	Methylene chloride	0.91 J	GW-042715-SM-003	8.3 J	25 U	µg/L

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration

TABLE 4

QUALIFIED SAMPLE DATA DUE TO ANALYTE CONCENTRATIONS IN THE RINSE BLANKS
SITE-WIDE GROUNDWATER MONITORING
RACER TRUST - MLK BOULEVARD FACILITY
ANDERSON, INDIANA
APRIL 2015

Parameter	*Rinse Blank ID*	*Blank Date*	*Analyte*	*Blank Result*	*Associated Sample ID*	*Original Result*	*Qualified Result*	*Units*
Volatile Organic Compounds	RB-042815-SM-002	04/28/2015	Acetone	1.9 J	GW-042815-SM-006	2.6 J	10 U	µg/L
					GW-042815-SM-013	6.4 J	57 U	µg/L
					SW-042715-SM-001	2.4 J	13 U	µg/L

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration

Appendix A.2
July 2015 Data Validation Report

Memorandum

To:	Shannon Richardson	Ref. No.:	017302-T07
From:	Deb Andrasko/eew/54	Date:	August 3, 2015
cc:	Rob Catallo		

Re: Analytical Results and Reduced Validation
Surface Water Sampling
RACER Trust – MLK Boulevard
Anderson, Indiana
July 2015

1. Introduction

This document details a reduced validation of analytical results for water samples collected in support of the Surface Water Sampling at the MLK Boulevard Facility site in Anderson, Indiana during July 2015. Samples were submitted to TestAmerica Laboratory, located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody form, finished report forms, method blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spikes (MS), and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Quality Assurance Project Plan (QAPP) for the Resource Conservation and Recovery Act (RCRA) Facility Investigation at GM Anderson, Indiana Facility", IND 980 700 801, Revision 2, October 14, 1997.

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Item ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

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2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. The sample chain of custody document and analytical report were used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, a laboratory method blank was analyzed at a minimum frequency of 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the method employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the above criteria.

5. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, an LCS was analyzed at a minimum frequency of 1 per analytical batch.

5.1 Organic Analyses

The LCS contained all compounds of interest. All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation, measurement procedures, and accuracy of a particular analysis, samples are spiked with known concentrations of the analytes of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

7. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample, and one field duplicate sample set.

7.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, a trip blank was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest with the exception of a low concentration of acetone. All associated samples were non-detect for acetone and were not impacted.

7.2 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, a field duplicate sample set was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value for water samples.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

8. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were qualified as estimated (J) in Table 2. Non-detect results were presented as non-detect at the RL in Table 2.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable without qualification.

Table 1

Sample Collection and Analysis Summary
Surface Water Sampling
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July 2015

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis: Volatiles	Comments
SW-071015-SM-001	Pond North	Water	07/10/2015	08:15	X	MS/MSD
SW-071015-SM-002	Pond Intake	Water	07/10/2015	08:30	X	
SW-071015-SM-003	Pond Intake	Water	07/10/2015	08:35	X	FD of SW-071015-SM-002
TB-071015-SM-001	-	Water	07/10/2015	08:45	X	Trip blank

Notes:

FD - Field Duplicate sample
MS/MSD - Matrix Spike/Matrix Spike Duplicate

Table 2

Analytical Results Summary
Surface Water Sampling
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
July 2015

Sample Location:		Pond North	Pond Intake	Pond Intake
Sample ID:		SW-071015-SM-001	SW-071015-SM-002	SW-071015-SM-003
Sample Date:		7/10/2015	7/10/2015	7/10/2015 (Duplicate)
Parameters	**Units**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/L	3.3 U	3.3 U	4.0 U
1,1,2,2-Tetrachloroethane	µg/L	3.3 U	3.3 U	4.0 U
1,1,2-Trichloroethane	µg/L	3.3 U	3.3 U	4.0 U
1,1-Dichloroethane	µg/L	5.2	5.4	5.8
1,1-Dichloroethene	µg/L	3.3 U	3.3 U	4.0 U
1,2-Dichloroethane	µg/L	3.3 U	3.3 U	4.0 U
1,2-Dichloropropane	µg/L	3.3 U	3.3 U	4.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	33 U	33 U	40 U
2-Hexanone	µg/L	33 U	33 U	40 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	33 U	33 U	40 U
Acetone	µg/L	33 U	33 U	40 U
Benzene	µg/L	3.3 U	3.3 U	4.0 U
Bromodichloromethane	µg/L	3.3 U	3.3 U	4.0 U
Bromoform	µg/L	3.3 U	3.3 U	4.0 U
Bromomethane (Methyl bromide)	µg/L	3.3 U	3.3 U	4.0 U
Carbon disulfide	µg/L	3.3 U	3.3 U	4.0 U
Carbon tetrachloride	µg/L	3.3 U	3.3 U	4.0 U
Chlorobenzene	µg/L	3.3 U	3.3 U	4.0 U
Chloroethane	µg/L	3.3 U	3.3 U	4.0 U
Chloroform (Trichloromethane)	µg/L	3.3 U	3.3 U	4.0 U
Chloromethane (Methyl chloride)	µg/L	3.3 U	3.3 U	4.0 U
cis-1,2-Dichloroethene	µg/L	93	100	110
cis-1,3-Dichloropropene	µg/L	3.3 U	3.3 U	4.0 U
Dibromochloromethane	µg/L	3.3 U	3.3 U	4.0 U
Ethylbenzene	µg/L	3.3 U	3.3 U	4.0 U
Methylene chloride	µg/L	3.3 U	3.3 U	4.0 U
Styrene	µg/L	3.3 U	3.3 U	4.0 U
Tetrachloroethene	µg/L	3.3 U	3.3 U	4.0 U
Toluene	µg/L	3.3 U	3.3 U	4.0 U
trans-1,2-Dichloroethene	µg/L	3.1 J	3.4	3.5 J
trans-1,3-Dichloropropene	µg/L	3.3 U	3.3 U	4.0 U
Trichloroethene	µg/L	3.3 U	3.3 U	4.0 U
Vinyl chloride	µg/L	7.7	8.0	7.9
Xylenes (total)	µg/L	6.7 U	6.7 U	8.0 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration

Appendix A.3
October 2015 Data Validation Report

Memorandum

To:	Shannon Richardson	Ref. No.:	017302-T07
From:	Jeffrey Cloud/eew/55-NF	Date:	November 19, 2015
cc:	Rob Catallo, Deb Andrasko		

Re: Analytical Results and Reduced Validation
Site-Wide Groundwater Monitoring
RACER Trust – MLK Boulevard Facility
Anderson, Indiana
October 2015

1. Introduction

The following document details a reduced validation of analytical results for groundwater samples collected in support of the Site-Wide Groundwater Monitoring at the Anderson, Indiana Site during October 2015. Samples were submitted to TestAmerica Laboratory, located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) -equivalent raw data deliverables were provided by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control samples (LCS), matrix spikes (MS), and field QC samples; raw data was not reviewed or assessed.

The QA/QC criteria by which these data have been assessed are outlined in the analytical method referenced in Table 3 and applicable guidance from the documents entitled:

i) "Quality Assurance Project Plan (QAPP) for the Resource Conservation and Recovery Act (RCRA) Facility Investigation at GM Anderson, Indiana Facility", IND 980 700 801, Revision 2, October 14, 1997

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Item ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

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2. Sample Holding Time and Preservation

The sample holding time criterion for the analysis is presented in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were analyzed within the required holding time.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation with the exception of two analytes present at low concentrations. Associated sample results with concentrations similar to the blanks were qualified as estimated due to contamination as evidenced by the blank (see Table 4).

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the method employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) analysis were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the associated criteria.

5. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained all analytes of interest. All LCS recoveries were within laboratory control limits, demonstrating acceptable analytical accuracy with the exception of a few high recoveries. The associated sample results were non-detect and would not have been impacted. No qualification of the data was deemed necessary.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the distillation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with known concentrations of the analytes of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with the analytes of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

7. Field QA/QC Samples

The field QA/QC consisted of five trip blank samples, four rinse blank samples and four field duplicate sample sets.

7.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, five trip blanks were submitted to the laboratory for analysis. All results were non-detect for the analytes of interest with the exception of two analytes present at low concentrations. The associated sample results were non-detect and would not have been impacted. No qualification of the data was deemed necessary.

7.2 Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, four rinse blanks were submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest with the exception of 2-butanone present at low concentrations. The associated sample results were non-detect and would not have been impacted. No qualification of the data was deemed necessary.

7.3 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, four field duplicate samples were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

8. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the practical quantitation limit (PQL) but greater than the MDL

were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the PQL in Table 2.

9. Conclusion

Based on the assessment detailed in the foregoing, the summarized data are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
October 2015

					Analysis/Parameters	
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Volatiles**	**Comments**
GW-100815-TP-001	MW 80	Water	10/08/2015	11:27	X	
GW-100915-TP-008	MW 46	Water	10/09/2015	10:37	X	
GW-100915-TP-009	MW 37	Water	10/09/2015	11:23	X	
GW-100915-TP-010	MW 51	Water	10/09/2015	11:59	X	
GW-100915-TP-011	MW 61	Water	10/09/2015	12:42	X	
GW-100915-TP-012	MW 83	Water	10/09/2015	14:30	X	
GW-101215-TP-013	MW 28	Water	10/12/2015	12:07	X	
RB-101215-TP-002	--	Water	10/12/2015	12:15	X	Equipment Blank
GW-101215-TP-014	MW 41	Water	10/12/2015	12:58	X	
GW-101215-TP-015	MW 41	Water	10/12/2015	13:00	X	Field Duplicate of GW-101215-TP-014
GW-101215-TP-016	MW 42	Water	10/12/2015	13:42	X	
RB-100815-TP-001	--	Water	10/08/2015	11:35	X	Equipment Blank
GW-101215-TP-017	MW 84	Water	10/12/2015	14:22	X	
GW-101215-TP-018	MW 14	Water	10/12/2015	15:07	X	
GW-101215-TP-019	MW 82	Water	10/12/2015	15:58	X	
GW-101215-TP-020	MW 16	Water	10/12/2015	16:40	X	
GW-100815-TP-002	MW 88	Water	10/08/2015	12:47	X	
GW-100815-TP-003	MW 88	Water	10/08/2015	12:49	X	Field Duplicate of GW-100815-TP-002
GW-100815-TP-004	MW 86	Water	10/08/2015	13:40	X	
GW-100815-TP-005	MW 65	Water	10/08/2015	14:32	X	
GW-100815-TP-006	MW 81	Water	10/08/2015	15:18	X	
TB-100815-TP-001	--	Water	10/08/2015	--	X	Trip Blank
GW-100915-TP-007	MW 12	Water	10/09/2015	09:35	X	
GW-101315-TP-021	MW 64	Water	10/13/2015	10:03	X	
GW-101315-TP-022	MW 66	Water	10/13/2015	11:02	X	MS/MSD
GW-101315-TP-023	MW 40	Water	10/13/2015	12:12	X	
GW-101315-TP-024	MW 68	Water	10/13/2015	13:12	X	
GW-101315-TP-025	MW 68	Water	10/13/2015	13:20	X	Field Duplicate of GW-101315-TP-024

Table 1

Sample Collection and Analysis Summary
Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
October 2015

					Analysis/Parameters	
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Volatiles**	**Comments**
GW-101315-TP-026	MW 79	Water	10/13/2015	14:17	X	
RB-101315-TP-003	--	Water	10/13/2015	14:40	X	Equipment Blank
GW-101315-TP-027	MW 49	Water	10/13/2015	15:23	X	
TB-101315-TP-002	--	Water	10/13/2015	--	X	Trip Blank
GW-101415-TP-028	MW 21	Water	10/14/2015	09:52	X	
GW-101415-TP-029	MW 8	Water	10/14/2015	10:48	X	
GW-101415-TP-030	MW 31R	Water	10/14/2015	14:12	X	
GW-101415-TP-031	MW 3	Water	10/14/2015	15:07	X	MS/MSD
GW-101415-TP-032	MW 15	Water	10/14/2015	17:07	X	
TB-101415-TP-003	--	Water	10/14/2015	--	X	Trip Blank
GW-101515-TP-033	MW89-11	Water	10/15/2015	09:48	X	
RB-101515-TP-004	--	Water	10/15/2015	10:10	X	Equipment Blank
TB-101515-TP-004	--	Water	10/15/2015	--	X	Trip Blank
GW-101915-TP-034	MW-4	Water	10/19/2015	11:12	X	MS/MSD
GW-102015-TP-042	MW 58	Water	10/20/2015	10:27	X	
GW-102015-TP-043	MW 58	Water	10/20/2015	10:35	X	Field Duplicate of GW-102015-TP-042
TB-102015-TP-006	--	Water	10/20/2015	--	X	Trip Blank
GW-101915-TP-035	MW 85	Water	10/19/2015	12:24	X	
GW-101915-TP-036	MW 57	Water	10/19/2015	13:33	X	
GW-101915-TP-037	MW-2	Water	10/19/2015	14:34	X	
GW-101915-TP-038	MW 56	Water	10/19/2015	15:27	X	
GW-102015-TP-039	MW97-14	Water	10/20/2015	09:17	X	
SW-102015-TP-040	Pond Intake	Water	10/20/2015	09:25	X	
SW-102015-TP-041	Pond North	Water	10/20/2015	09:30	X	

Notes:

MS/MSD - Matrix Spike/Matrix Spike Duplicate
-- - Not Applicable

Analytical Results Summary
Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
October 2015

Sample Location:		MW 3	MW 8	MW 12	MW 14	MW 15	MW 16	MW 21
Sample ID:		GW-101415-TP-031	GW-101415-TP-029	GW-100915-TP-007	GW-101215-TP-018	GW-101415-TP-032	GW-101215-TP-020	GW-101415-TP-028
Sample Date:		10/14/2015	10/14/2015	10/9/2015	10/12/2015	10/14/2015	10/12/2015	10/14/2015
Parameters	**Units**							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	360	200 U	5.0 U	200 U	380	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	100 J	200 U	5.0 U	200 U	110 J	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1400 U	2000 U	50 U	2000 U	1700 U	10 U	10 U
2-Hexanone	µg/L	1400 U	2000 U	50 U	2000 U	1700 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	1400 U	2000 U	50 U	2000 U	1700 U	10 U	10 U
Acetone	µg/L	1400 U	2000 U	50 U	2000 U	1700 U	10 U	10 U
Benzene	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Bromoform	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Carbon disulfide	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Chlorobenzene	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Chloroethane	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1400	4800	80	4700	4400	0.26 J	1.0 U
cis-1,3-Dichloropropene	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Ethylbenzene	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Methylene chloride	µg/L	180 U	200 U	5.0 U	200 U	230 U	1.0 U	1.0 U
Styrene	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Toluene	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	140 U	200 U	1.9 J	200 U	170 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	140 U	200 U	5.0 U	200 U	170 U	1.0 U	1.0 U
Trichloroethene	µg/L	5100	420	5.0 U	200 U	3000	1.0 U	1.0 U
Vinyl chloride	µg/L	62 J	1500	5.0 U	140 J	94 J	1.0 U	1.0 U
Xylenes (total)	µg/L	290 U	400 U	10 U	400 U	330 U	2.0 U	2.0 U

Analytical Results Summary
Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
October 2015

Sample Location:		MW 28	MW 31R	MW 37	MW 40	MW 41	MW 41	MW 42
Sample ID:		GW-101215-TP-013	GW-101415-TP-030	GW-100915-TP-009	GW-101315-TP-023	GW-101215-TP-014	GW-101215-TP-015	GW-101215-TP-016
Sample Date:		10/12/2015	10/14/2015	10/9/2015	10/13/2015	10/12/2015	10/12/2015 (Duplicate)	10/12/2015
Parameters	**Units**							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
1,1,2,2-Tetrachloroethane	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
1,1,2-Trichloroethane	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
1,1-Dichloroethane	µg/L	40 U	290	1.0 U	240 J	330 U	250 U	170 U
1,1-Dichloroethene	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
1,2-Dichloroethane	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
1,2-Dichloropropane	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	400 U	2500 U	10 U	2500 U	3300 U	2500 U	1700 U
2-Hexanone	µg/L	400 U	2500 U	10 U	2500 U	3300 U	2500 U	1700 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	400 U	2500 U	10 U	2500 U	3300 U	2500 U	1700 U
Acetone	µg/L	400 U	2500 U	10 U	2500 U	3300 U	2500 U	1700 U
Benzene	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Bromodichloromethane	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Bromoform	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Bromomethane (Methyl bromide)	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Carbon disulfide	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Carbon tetrachloride	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Chlorobenzene	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Chloroethane	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Chloroform (Trichloromethane)	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Chloromethane (Methyl chloride)	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
cis-1,2-Dichloroethene	µg/L	860	6600	1.0 U	6300	6500	6200	4400
cis-1,3-Dichloropropene	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Dibromochloromethane	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Ethylbenzene	µg/L	40 U	410	1.0 U	250 U	330 U	250 U	170 U
Methylene chloride	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Styrene	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Tetrachloroethene	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Toluene	µg/L	40 U	790	1.0 U	250 U	330 U	250 U	170 U
trans-1,2-Dichloroethene	µg/L	12 J	250 U	1.0 U	110 J	120 J	110 J	190
trans-1,3-Dichloropropene	µg/L	40 U	250 U	1.0 U	250 U	330 U	250 U	170 U
Trichloroethene	µg/L	40 U	250 U	1.0 U	260	330 U	250 U	170 U
Vinyl chloride	µg/L	210	1700	1.0 U	440	390	390	140 J
Xylenes (total)	µg/L	80 U	650	2.0 U	500 U	670 U	500 U	330 U

Table 2

Analytical Results Summary
Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
October 2015

Sample Location:		MW 46	MW 49	MW 51	MW 56	MW 57	MW 58
Sample ID:		GW-100915-TP-008	GW-101315-TP-027	GW-100915-TP-010	GW-101915-TP-038	GW-101915-TP-036	GW-102015-TP-042
Sample Date:		10/9/2015	10/13/2015	10/9/2015	10/19/2015	10/19/2015	10/20/2015
Parameters	**Units**						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
1,1,2-Trichloroethane	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
1,1-Dichloroethane	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
1,1-Dichloroethene	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
1,2-Dichloroethane	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
1,2-Dichloropropane	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	400 U	50 U	10 U	10 U	57 U
2-Hexanone	µg/L	10 U	400 U	50 U	10 U	10 U	57 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	400 U	50 U	10 U	10 U	57 U
Acetone	µg/L	10 U	400 U	50 U	10 U	10 U	57 U
Benzene	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Bromodichloromethane	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Bromoform	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Carbon disulfide	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Carbon tetrachloride	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Chlorobenzene	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Chloroethane	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Chloroform (Trichloromethane)	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
cis-1,2-Dichloroethene	µg/L	1.0 U	860	8.3	1.0 U	1.0 U	28
cis-1,3-Dichloropropene	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Dibromochloromethane	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Ethylbenzene	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Methylene chloride	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Styrene	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Tetrachloroethene	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Toluene	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
trans-1,2-Dichloroethene	µg/L	1.0 U	24 J	5.0 U	1.0 U	1.0 U	5.7 U
trans-1,3-Dichloropropene	µg/L	1.0 U	40 U	5.0 U	1.0 U	1.0 U	5.7 U
Trichloroethene	µg/L	1.0 U	40 U	160	1.0 U	1.0 U	5.7 U
Vinyl chloride	µg/L	1.0 U	12 J	7.9	1.0 U	3.7	160
Xylenes (total)	µg/L	2.0 U	80 U	10 U	2.0 U	2.0 U	11 U

Table 2

Analytical Results Summary
Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
October 2015

Sample Location:		MW 58	MW 61	MW 64	MW 65	MW 66	MW 68
Sample ID:		GW-102015-TP-043	GW-100915-TP-011	GW-101315-TP-021	GW-100815-TP-005	GW-101315-TP-022	GW-101315-TP-024
Sample Date:		10/20/2015 (Duplicate)	10/9/2015	10/13/2015	10/8/2015	10/13/2015	10/13/2015
Parameters	**Units**						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
1,1,2-Trichloroethane	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
1,1-Dichloroethane	µg/L	5.0 U	1.0 U	16	2.5	59	150 J
1,1-Dichloroethene	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
1,2-Dichloroethane	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
1,2-Dichloropropane	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	50 U	10 U	100 U	20 U	400 U	2000 U
2-Hexanone	µg/L	50 U	10 U	100 U	20 U	400 U	2000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	10 U	100 U	20 U	400 U	2000 U
Acetone	µg/L	50 U	10 U	100 U	20 U	400 U	2000 U
Benzene	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Bromodichloromethane	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Bromoform	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Carbon disulfide	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Carbon tetrachloride	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Chlorobenzene	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Chloroethane	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Chloroform (Trichloromethane)	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
cis-1,2-Dichloroethene	µg/L	28	1.0 U	250	51	1000	5100
cis-1,3-Dichloropropene	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Dibromochloromethane	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Ethylbenzene	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Methylene chloride	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Styrene	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Tetrachloroethene	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Toluene	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
trans-1,2-Dichloroethene	µg/L	5.0 U	1.0 U	22	3.2	67	150 J
trans-1,3-Dichloropropene	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	200 U
Trichloroethene	µg/L	5.0 U	1.0 U	10 U	2.0 U	40 U	1400
Vinyl chloride	µg/L	150	0.68 J	30	1.2 J	130	160 J
Xylenes (total)	µg/L	10 U	2.0 U	20 U	4.0 U	80 U	400 U

Table 2

Analytical Results Summary
Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
October 2015

Sample Location:		MW 68	MW 79	MW 80	MW 81	MW 82	MW 83
Sample ID:		GW-101315-TP-025	GW-101315-TP-026	GW-100815-TP-001	GW-100815-TP-006	GW-101215-TP-019	GW-100915-TP-012
Sample Date:		10/13/2015 (Duplicate)	10/13/2015	10/8/2015	10/8/2015	10/12/2015	10/9/2015
Parameters	**Units**						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	130 J	83 U	1.7 U	3.2 J	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	2000 U	830 U	17 U	80 U	10 U	10 U
2-Hexanone	µg/L	2000 U	830 U	17 U	80 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	2000 U	830 U	17 U	80 U	10 U	10 U
Acetone	µg/L	2000 U	830 U	17 U	80 U	10 U	10 U
Benzene	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Bromoform	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Chloroethane	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	4900	2000	1.2 J	190	0.41 J	1.0 U
cis-1,3-Dichloropropene	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Styrene	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Toluene	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	140 J	79 J	1.7 U	8.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	200 U	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1300	83 U	1.7 U	8.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	120 J	130	40	62	1.0 U	3.7
Xylenes (total)	µg/L	400 U	170 U	3.3 U	16 U	2.0 U	2.0 U

Table 2

Analytical Results Summary
Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
October 2015

Sample Location:		MW 84	MW 85	MW 86	MW 88	MW 88	MW-2
Sample ID:		GW-101215-TP-017	GW-101915-TP-035	GW-100815-TP-004	GW-100815-TP-002	GW-100815-TP-003	GW-101915-TP-037
Sample Date:		10/12/2015	10/19/2015	10/8/2015	10/8/2015	10/8/2015 (Duplicate)	10/19/2015
Parameters	**Units**						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	380	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	3300 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	3300 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	3300 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	3300 U	10 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	0.27 J	10000	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	220 J	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	330 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	440	1.0 U	1.0	0.98 J	1.0 U
Xylenes (total)	µg/L	2.0 U	670 U	2.0 U	2.0 U	2.0 U	2.0 U

Table 2

Analytical Results Summary
Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
October 2015

Sample Location:		MW-4	MW89-11	MW97-14	Pond Intake	Pond North
Sample ID:		GW-101915-TP-034	GW-101515-TP-033	GW-102015-TP-039	SW-102015-TP-040	SW-102015-TP-041
Sample Date:		10/19/2015	10/15/2015	10/20/2015	10/20/2015	10/20/2015
Parameters	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	330 U	1.1	1.0 U	1.0 U	1.4 U
1,1,2,2-Tetrachloroethane	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
1,1,2-Trichloroethane	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
1,1-Dichloroethane	µg/L	470	1.0 U	1.0 U	1.8	1.7
1,1-Dichloroethene	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
1,2-Dichloroethane	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
1,2-Dichloropropane	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	3300 U	10 U	10 U	10 U	14 U
2-Hexanone	µg/L	3300 U	10 U	10 U	10 U	14 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	3300 U	10 U	10 U	10 U	14 U
Acetone	µg/L	3300 U	10 U	10 U	10 U	14 U
Benzene	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Bromodichloromethane	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Bromoform	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Bromomethane (Methyl bromide)	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Carbon disulfide	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Carbon tetrachloride	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Chlorobenzene	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Chloroethane	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Chloroform (Trichloromethane)	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Chloromethane (Methyl chloride)	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
cis-1,2-Dichloroethene	µg/L	12000	1.0 U	1.0 U	37	35
cis-1,3-Dichloropropene	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Dibromochloromethane	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Ethylbenzene	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Methylene chloride	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Styrene	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Tetrachloroethene	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Toluene	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
trans-1,2-Dichloroethene	µg/L	330	1.0 U	1.0 U	0.85 J	0.83 J
trans-1,3-Dichloropropene	µg/L	330 U	1.0 U	1.0 U	1.0 U	1.4 U
Trichloroethene	µg/L	1000	1.0 U	1.0 U	1.0 U	1.4 U
Vinyl chloride	µg/L	470	1.0 U	1.0 U	6.5	4.7
Xylenes (total)	µg/L	670 U	2.0 U	2.0 U	2.0 U	2.9 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
- Not analyzed

Table 3

Analytical Methods
Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
October 2015

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatiles	SW-846 8260B [1]	Water	-	14

Notes:

[1] - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

Table 4

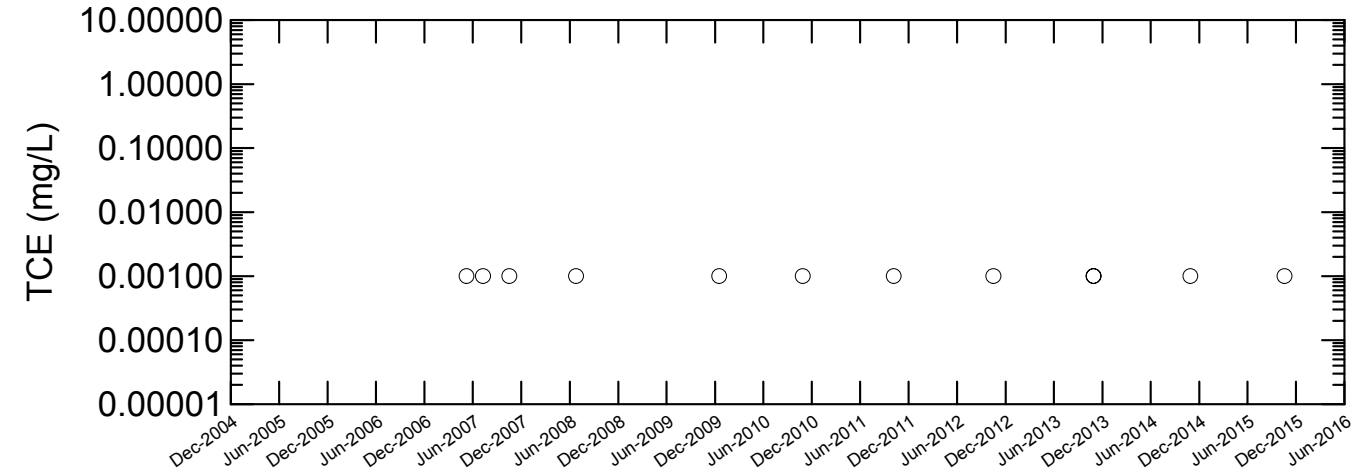
Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
October 2015

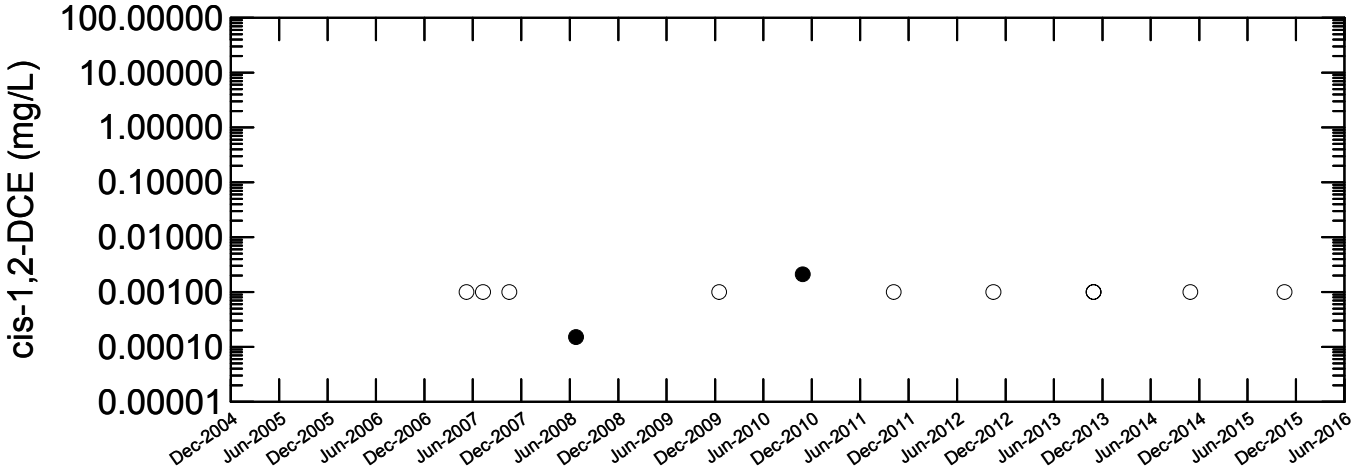
Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
Volatiles	Acetone	10/23/2015	1.02 J	GW-101415-TP-031	190 J	1400 U	µg/L
	Methylene chloride	10/23/2015	1.02	GW-101415-TP-031	180	180 U	µg/L
				GW-101415-TP-032	230	230 U	µg/L

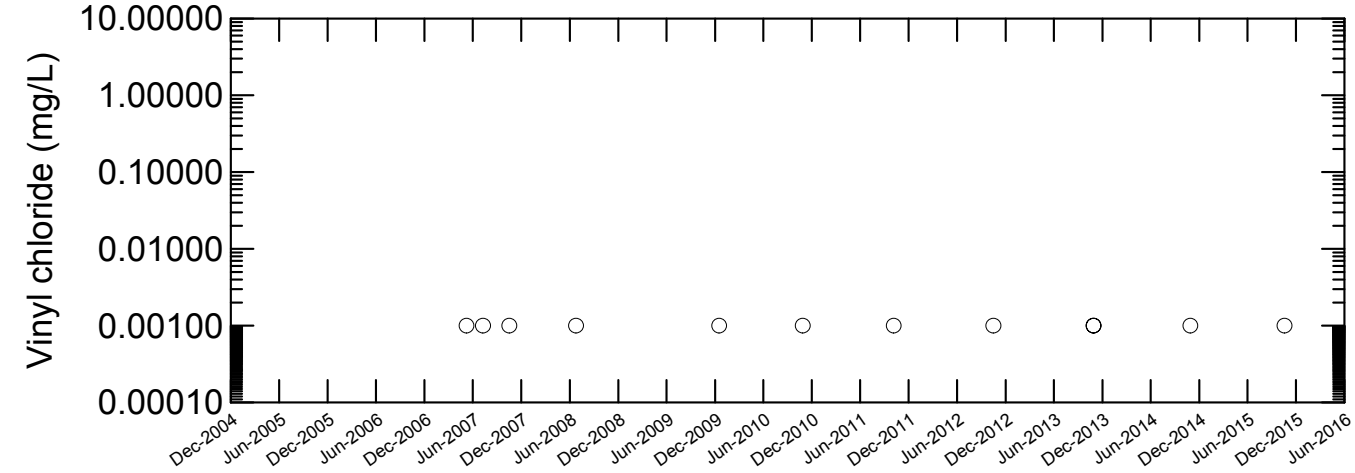
Notes:

* - Blank result adjusted for sample factors where applicable
U - Not detected at the associated reporting limit
J - Estimated concentration

Appendix B
Groundwater Data Analysis Tables and Concentration vs. Time Graphs







Legend:

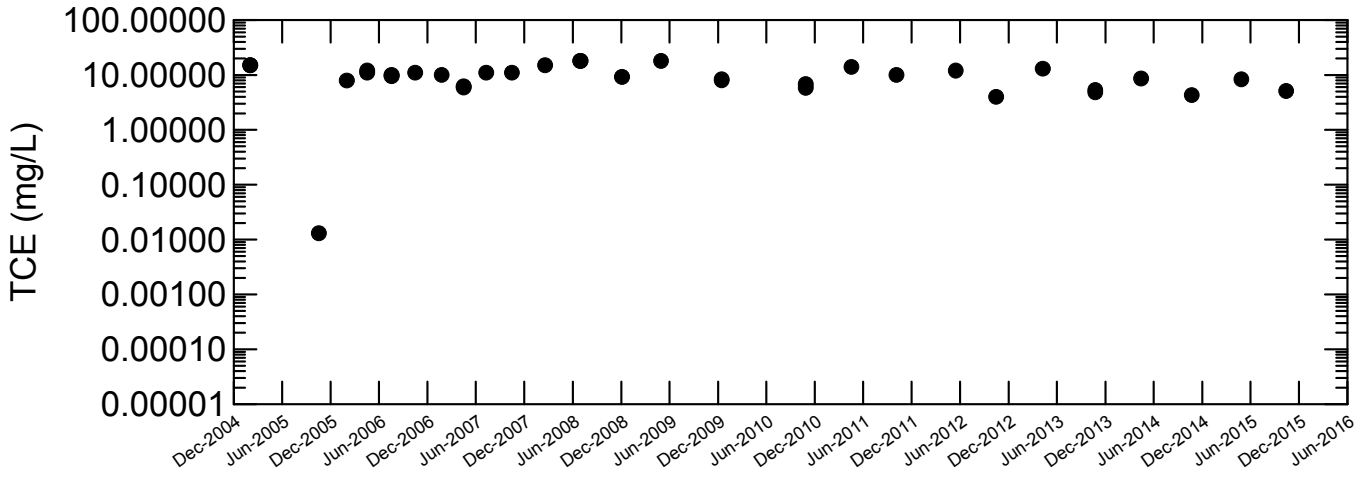
● Detected Result
○ Non-Detect Result

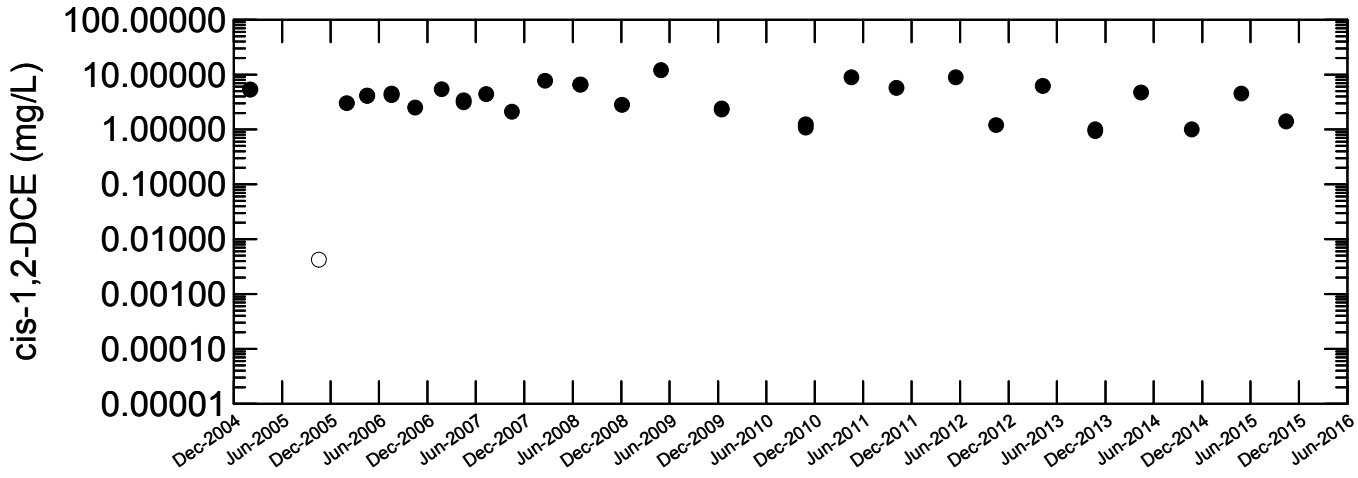
Note:

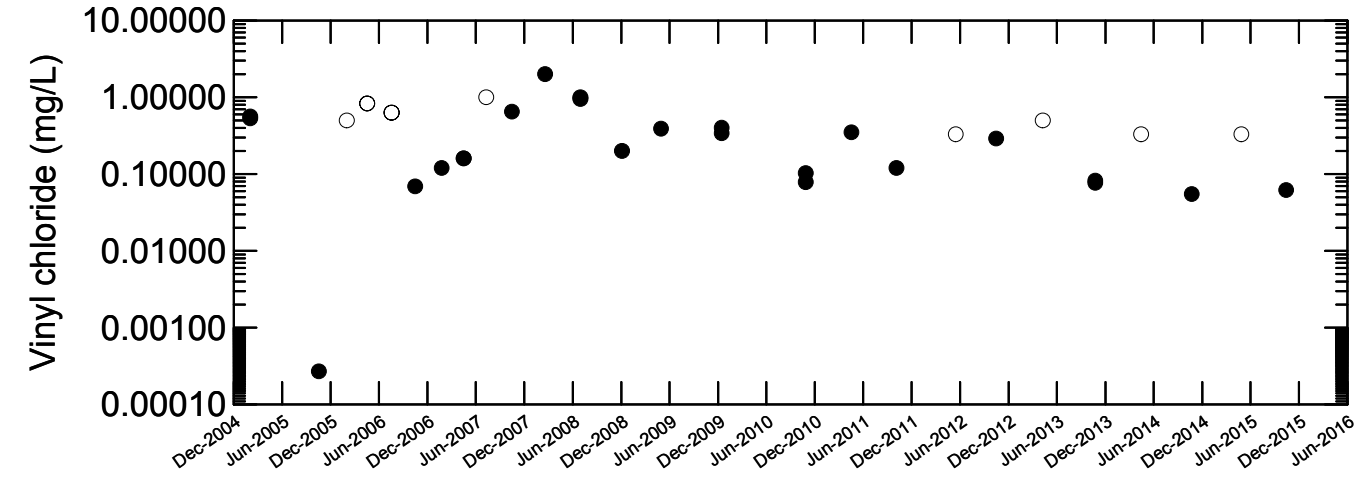
Non-detects are shown as the laboratory detection limit.

MW-2

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

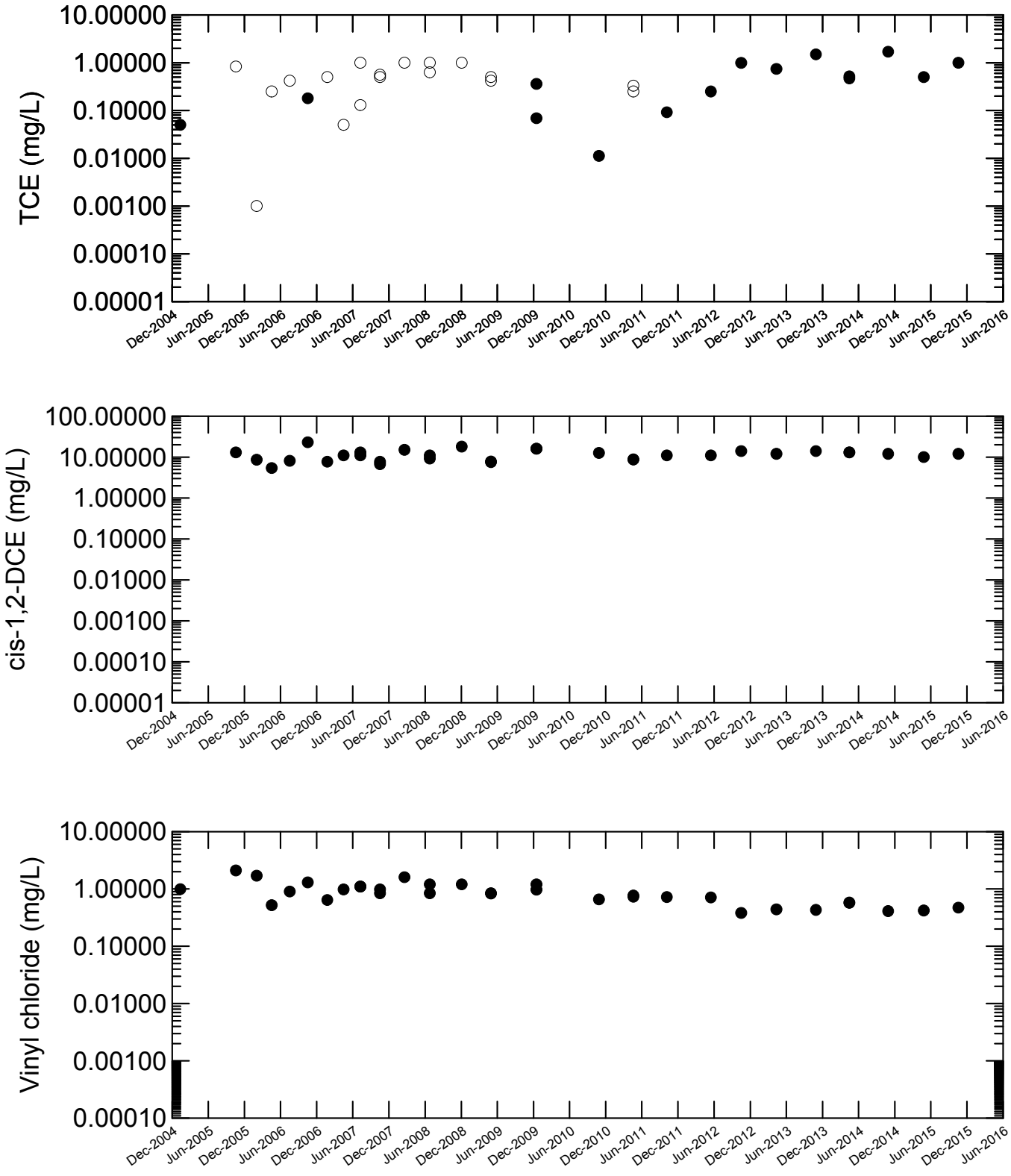
● Detected Result
○ Non-Detect Result

Note:

Non-detects are shown as the laboratory detection limit.

MW 3

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana



Legend:

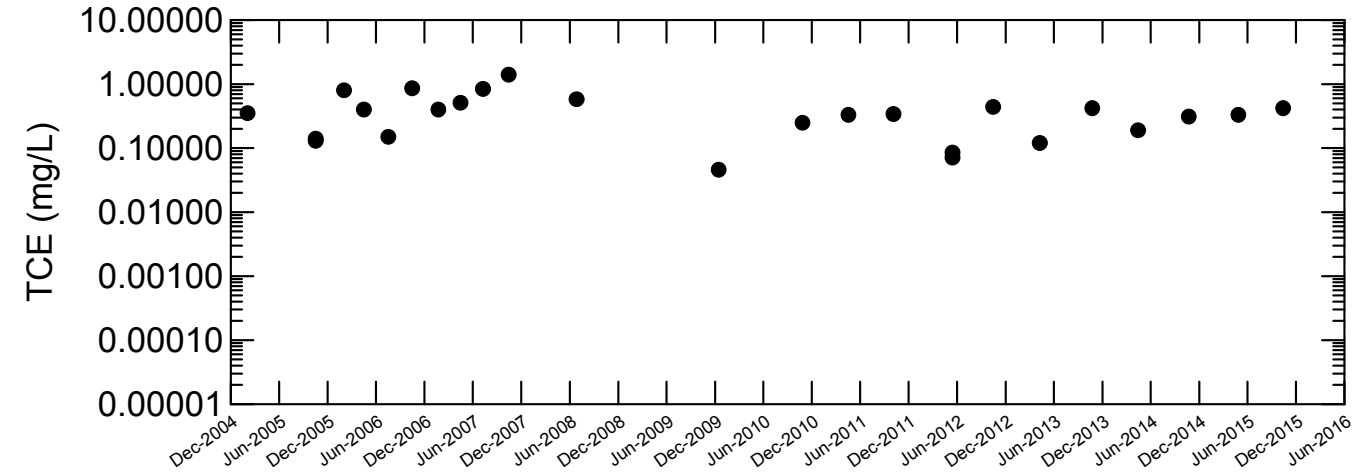
- ● Detected Result
- ○ Non-Detect Result

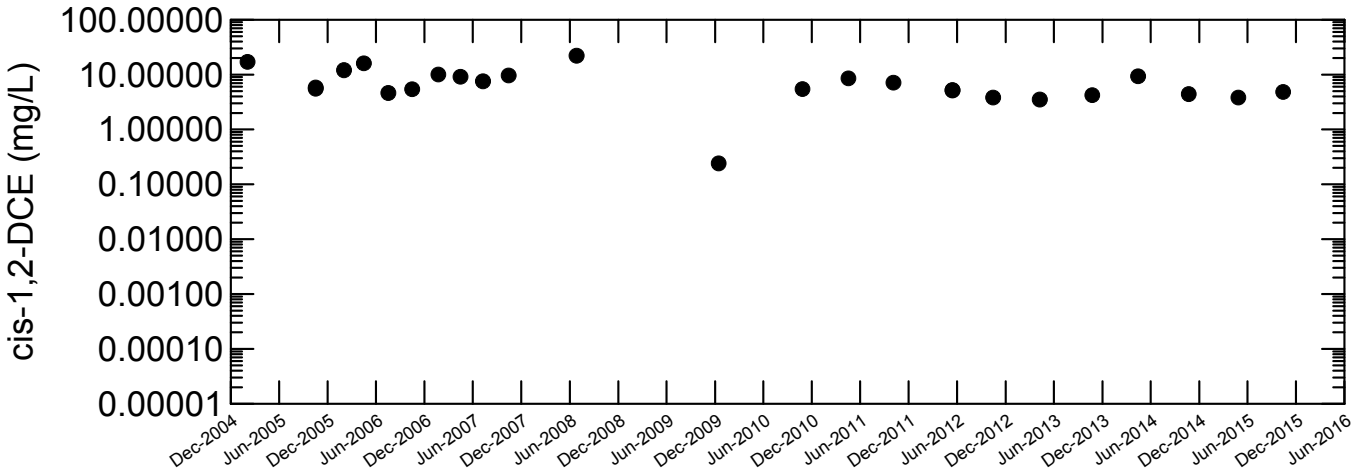
Note:

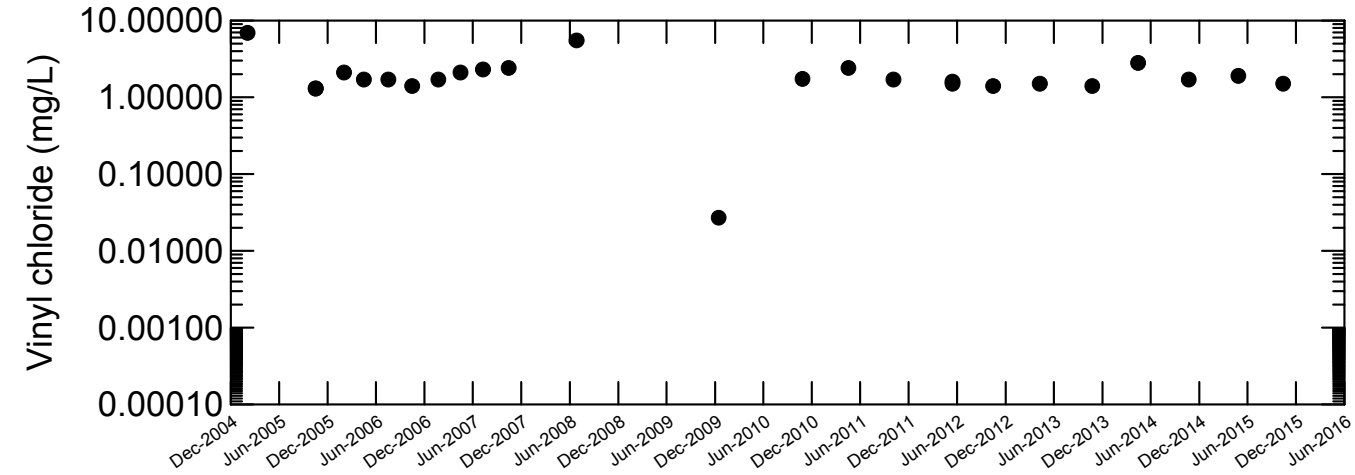
Non-detects are shown as the laboratory detection limit.

MW-4

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

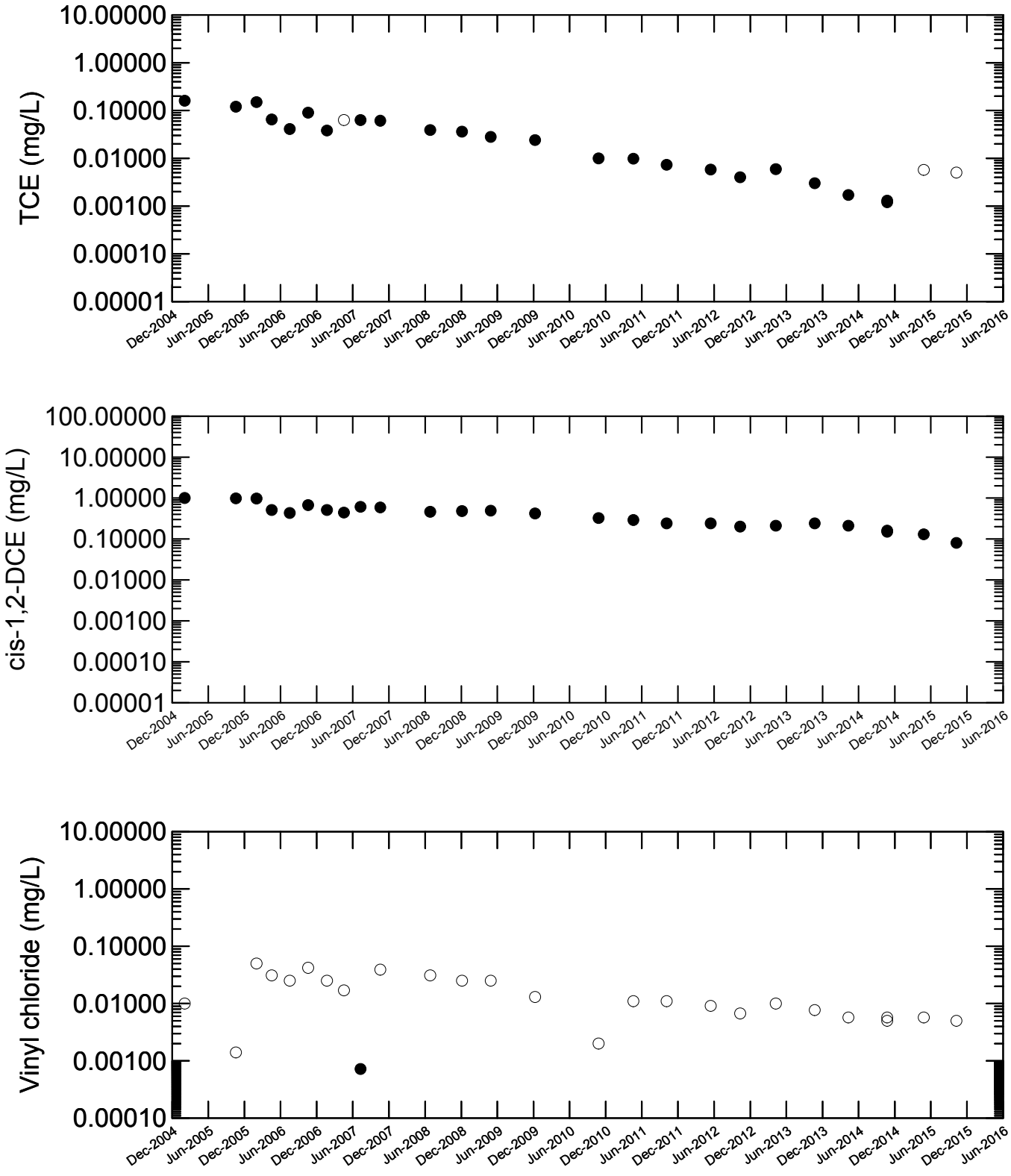
● Detected Result
○ Non-Detect Result

Note:

Non-detects are shown as the laboratory detection limit.

MW 8

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana



Legend:

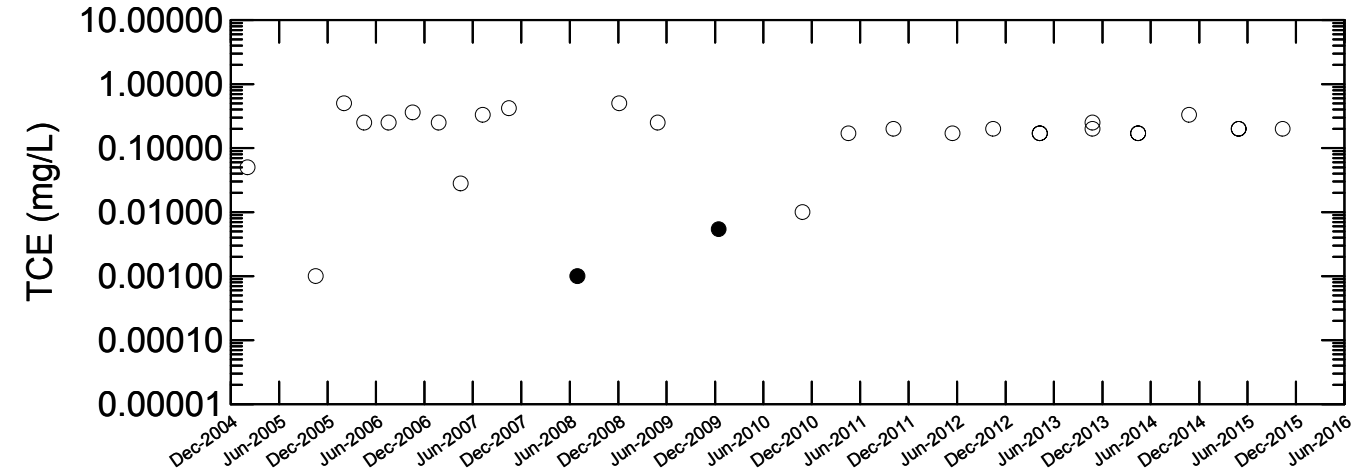
- ● Detected Result
- ○ Non-Detect Result

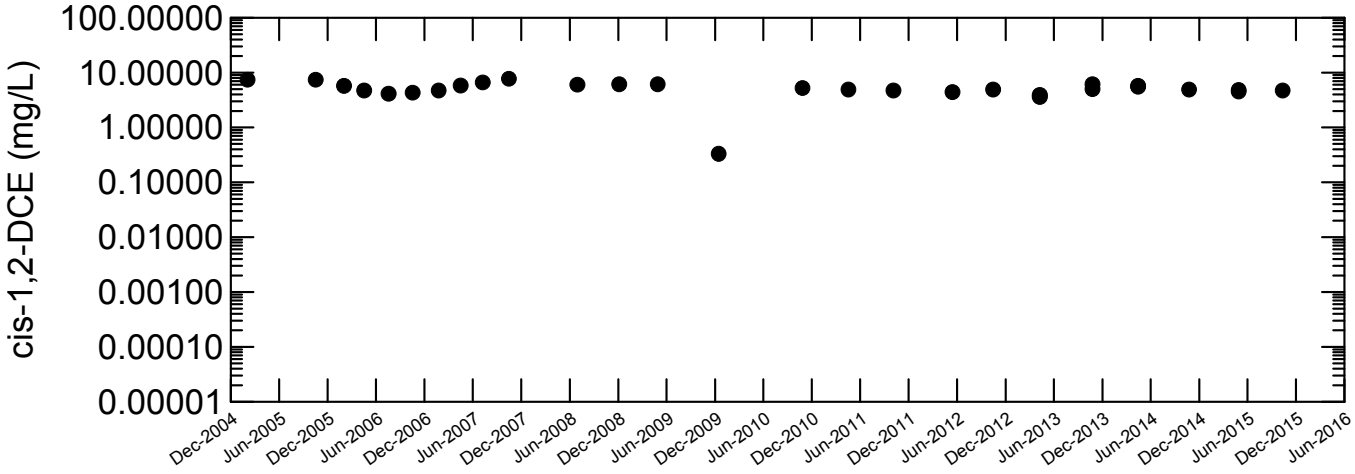
Note:

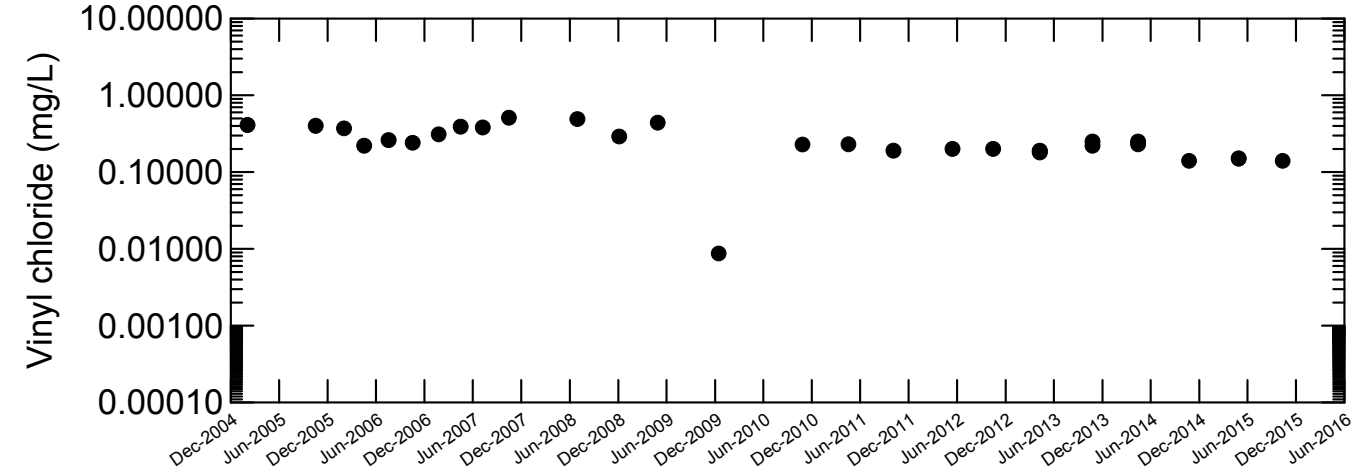
Non-detects are shown as the laboratory detection limit.

MW 12

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

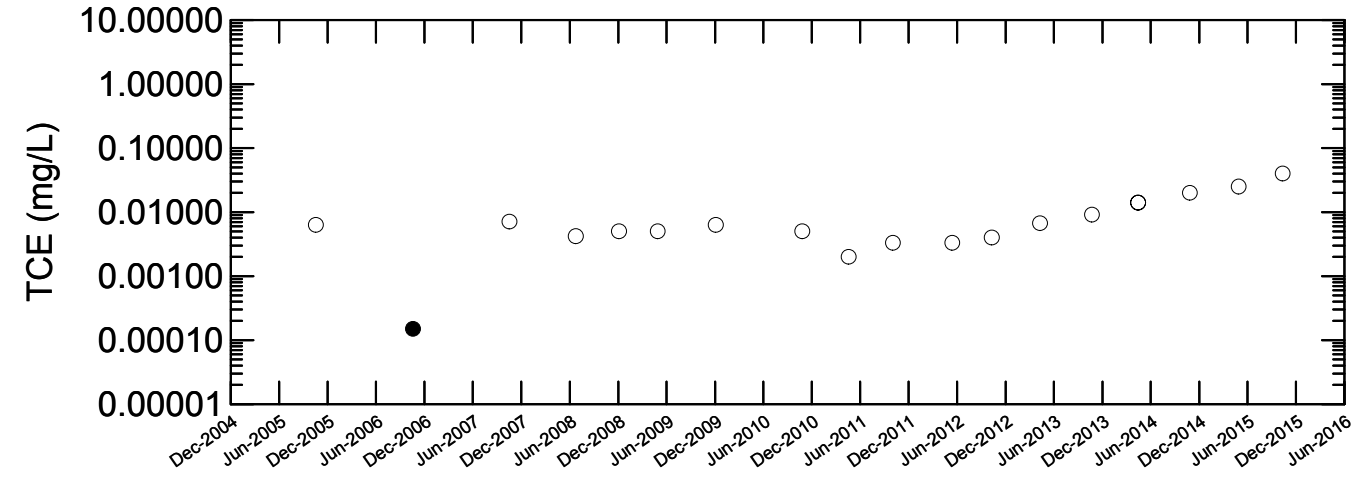
● Detected Result
○ Non-Detect Result

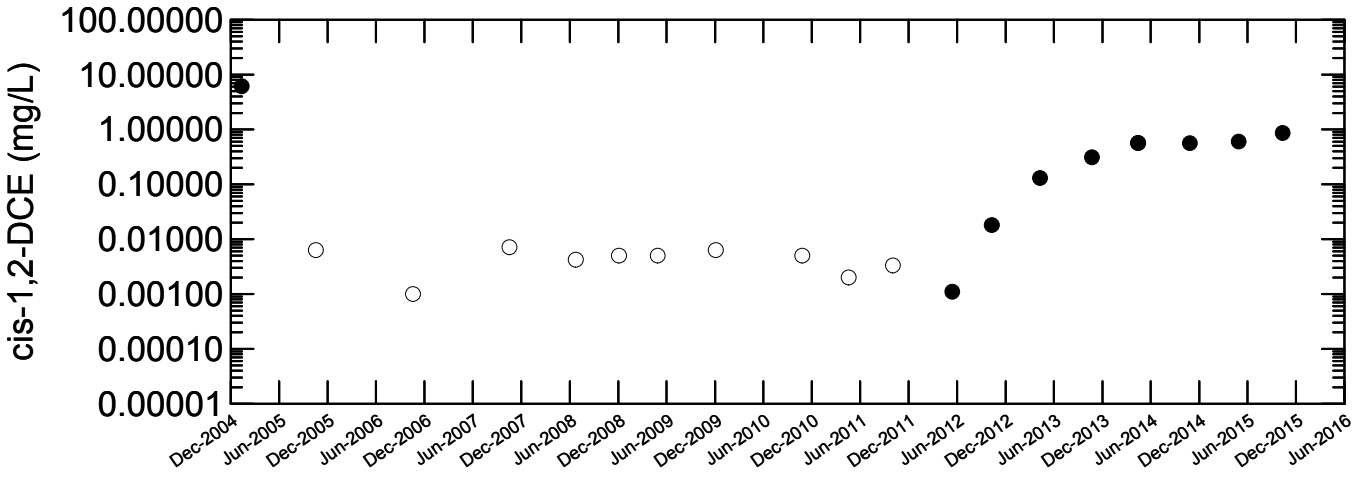
Note:

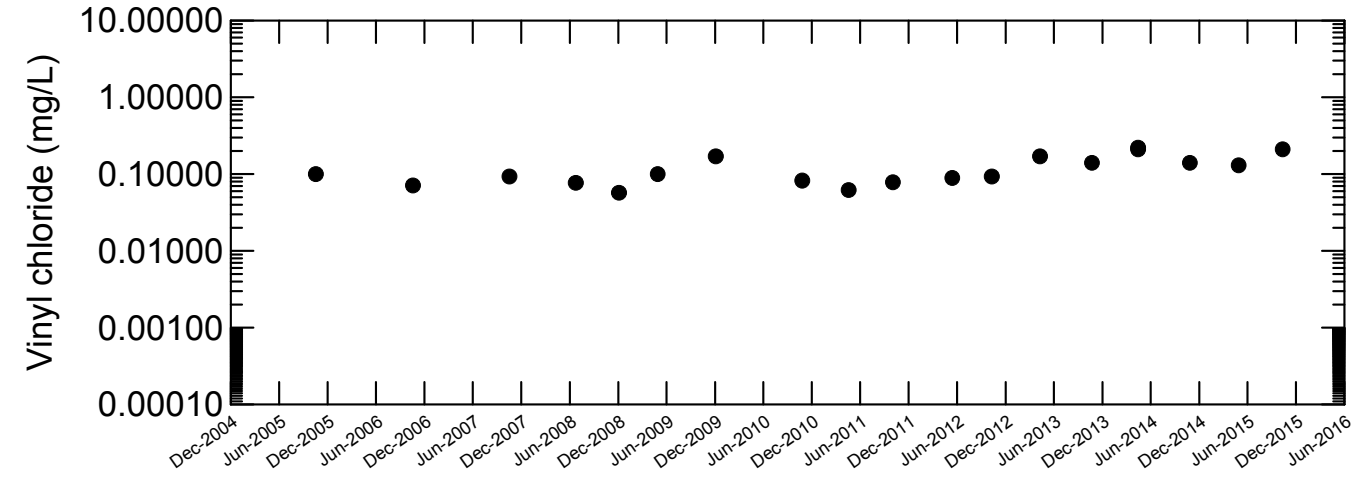
Non-detects are shown as the laboratory detection limit.

MW 14

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

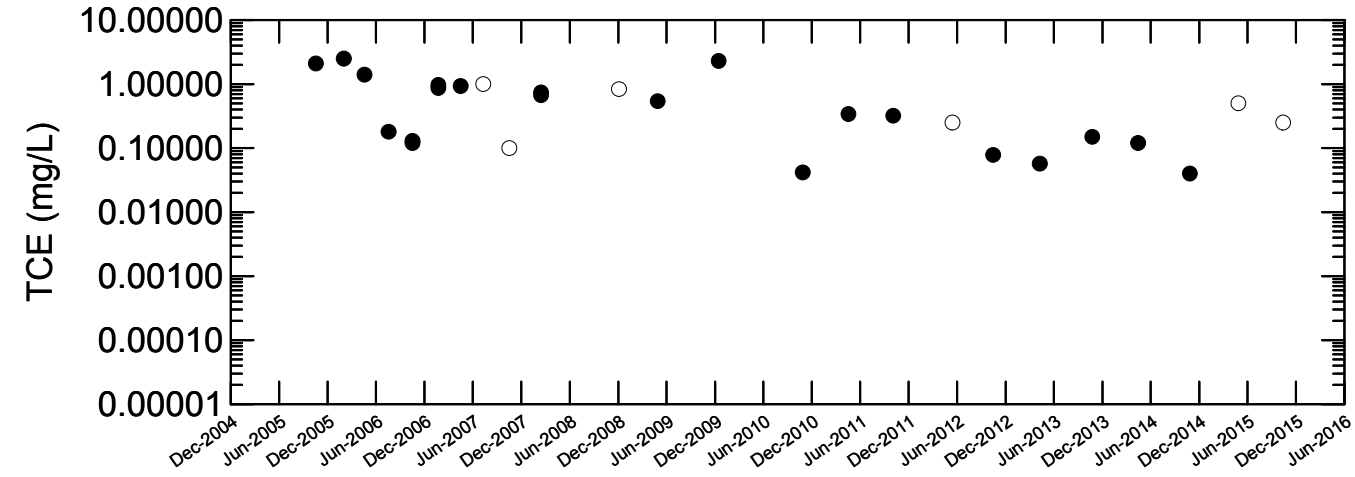
- ● Detected Result
- ○ Non-Detect Result

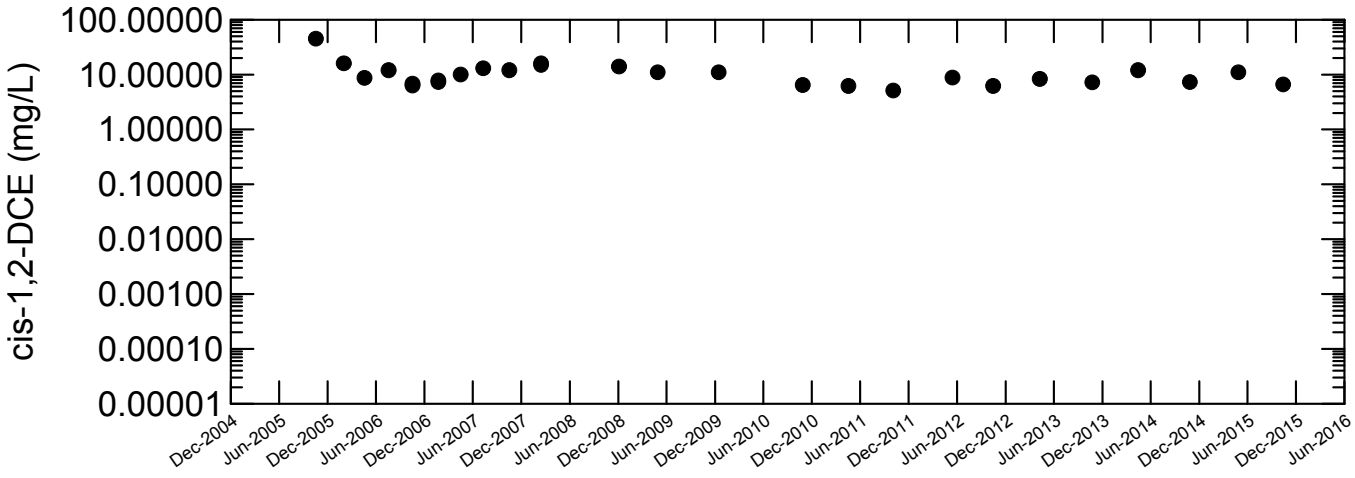
Note:

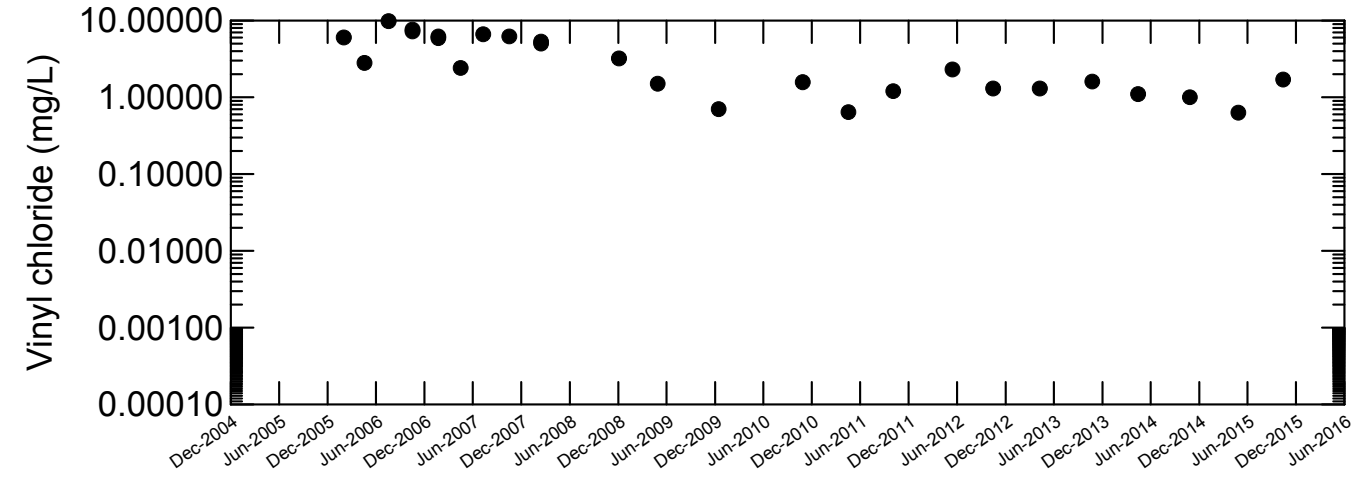
Non-detects are shown as the laboratory detection limit.

MW 28

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

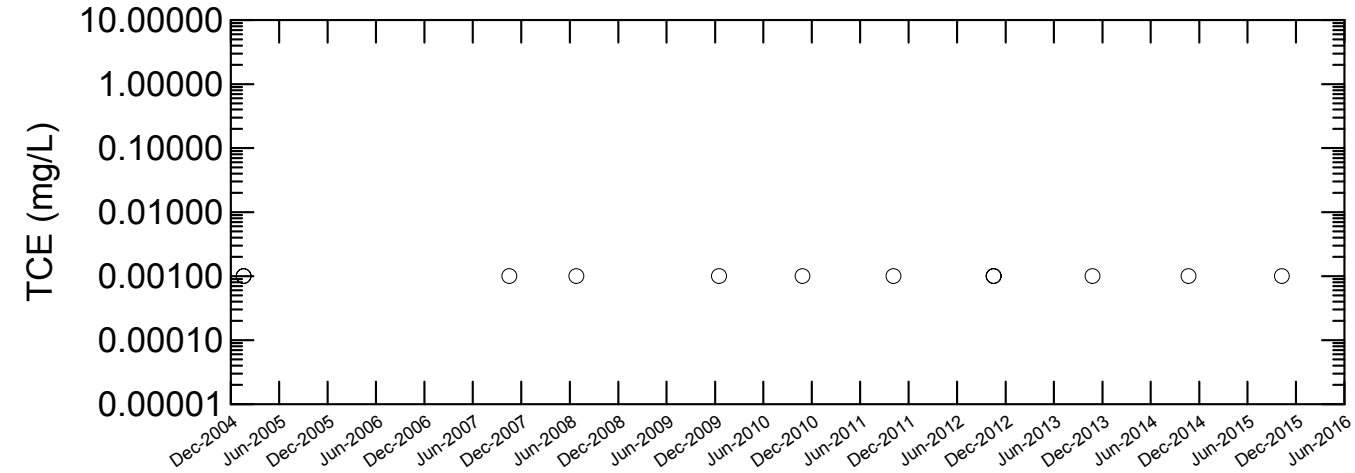
● Detected Result
○ Non-Detect Result

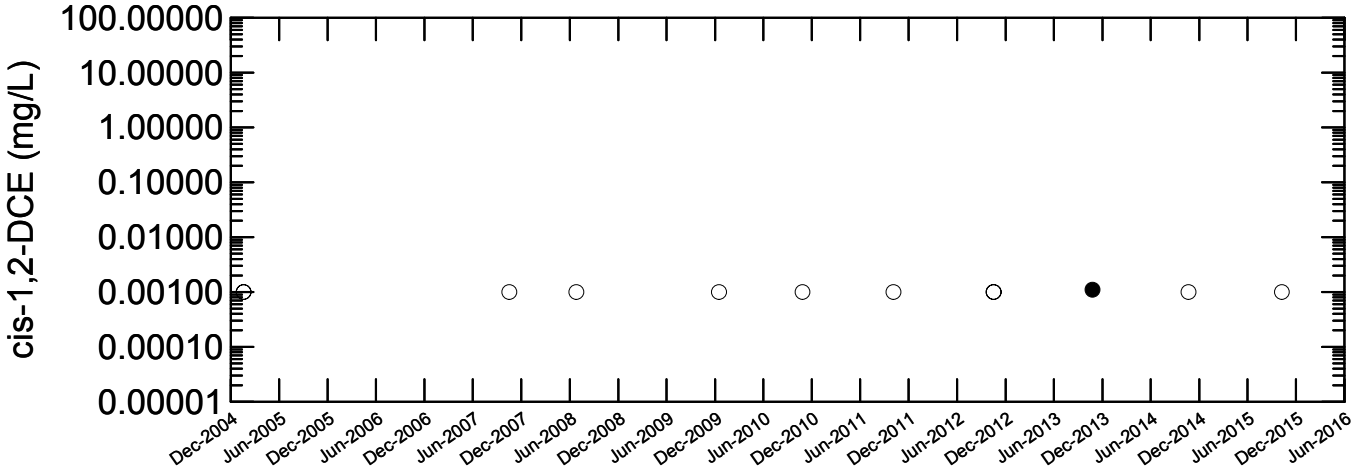
Note:

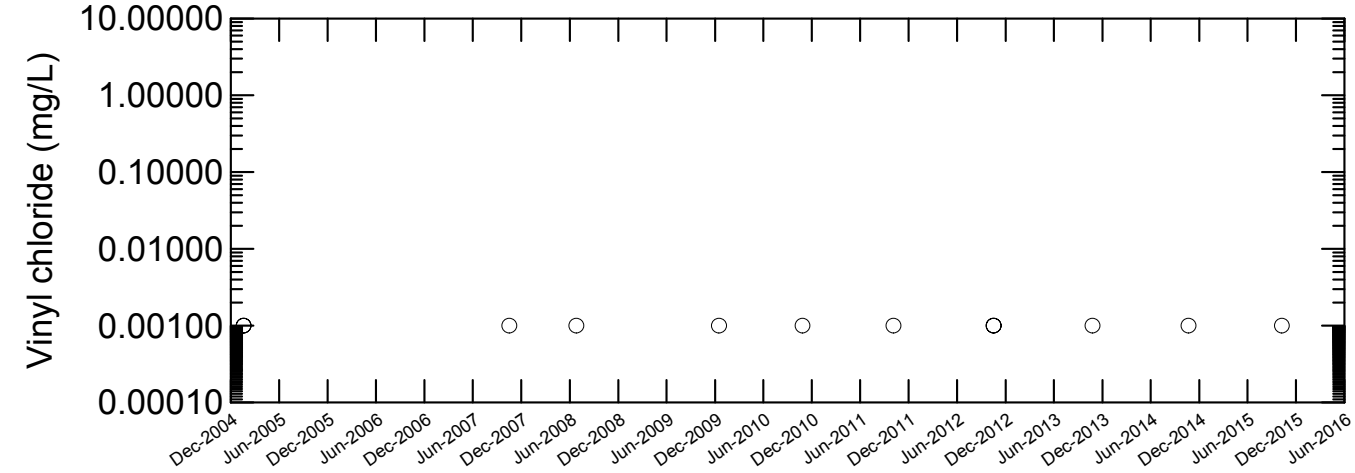
Non-detects are shown as the laboratory detection limit.

MW 31R

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

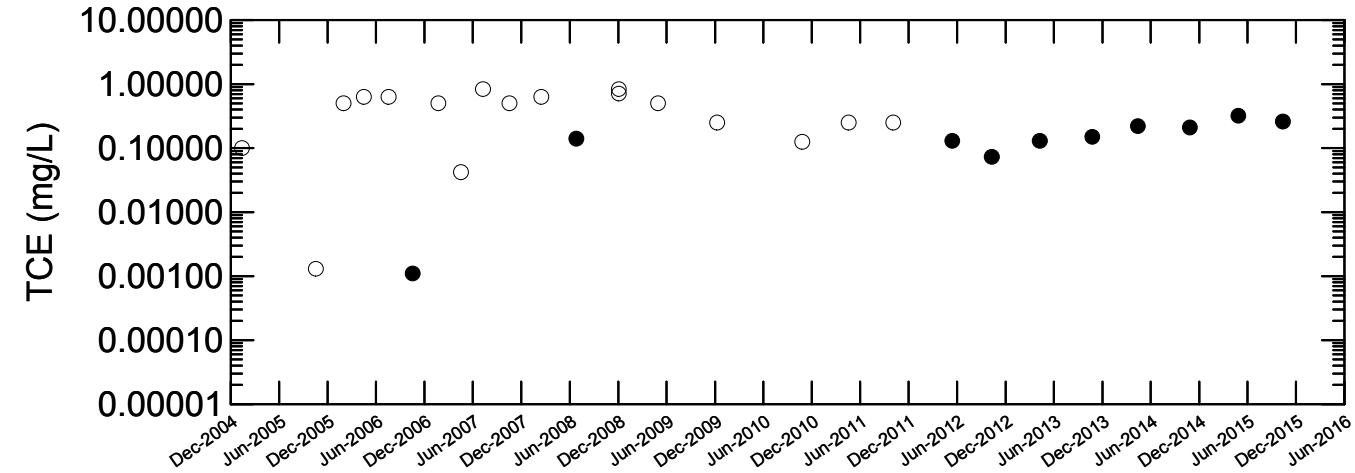
● Detected Result
○ Non-Detect Result

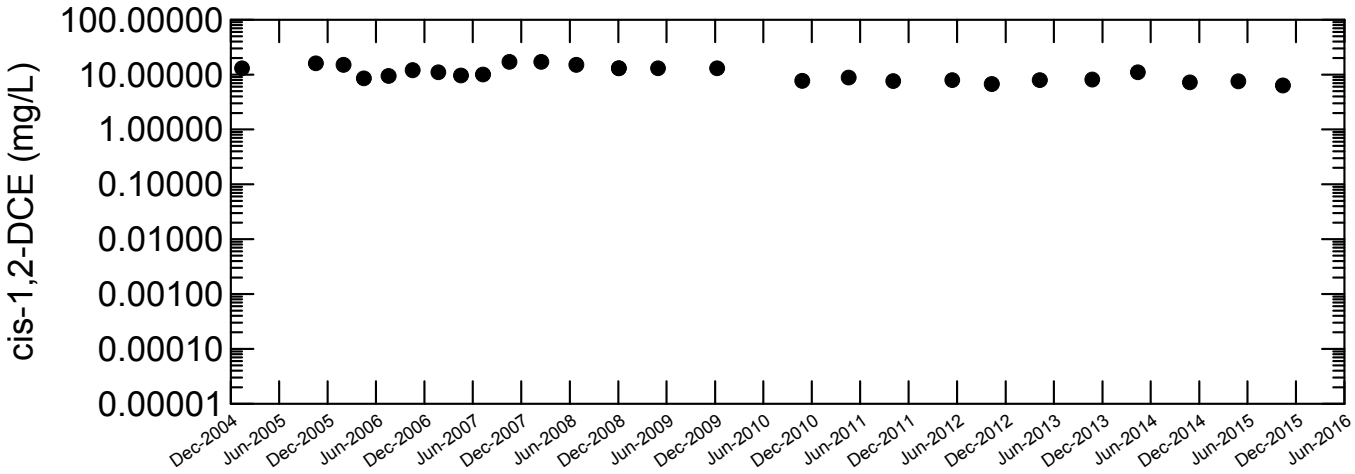
Note:

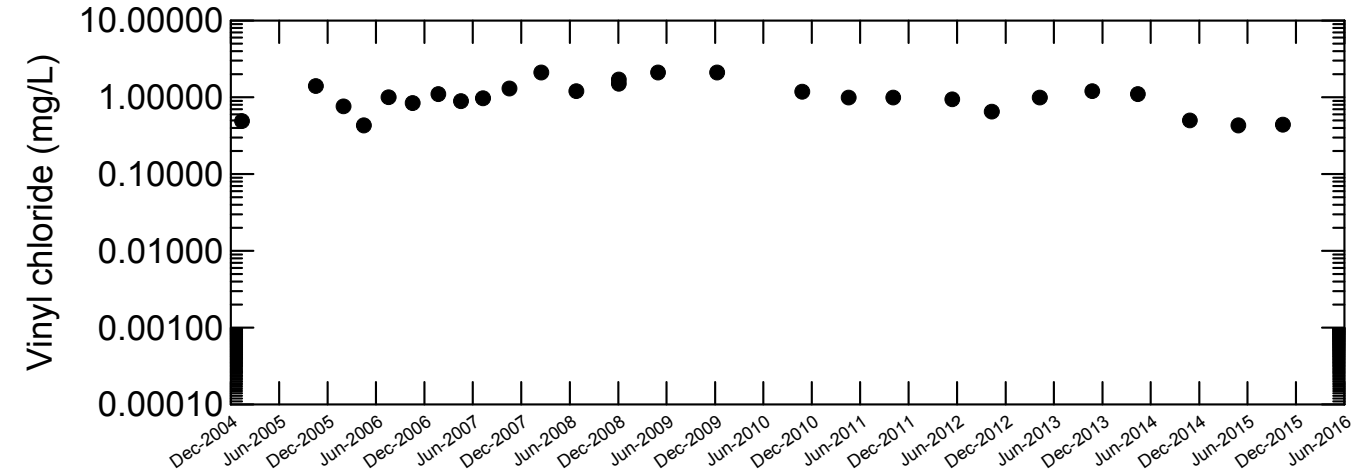
Non-detects are shown as the laboratory detection limit.

MW 37

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

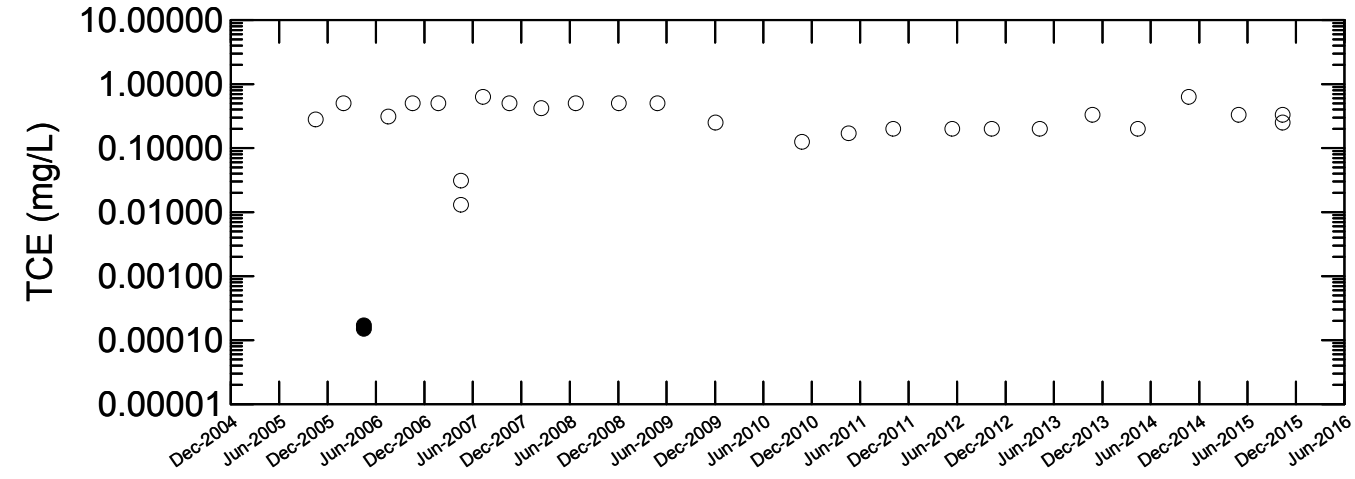
● Detected Result
○ Non-Detect Result

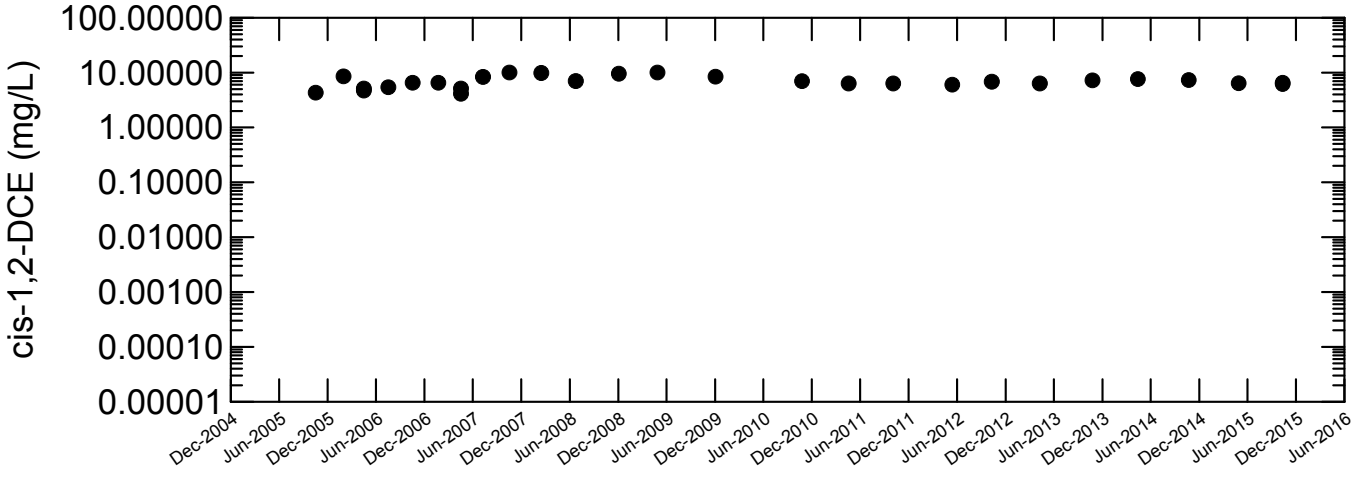
Note:

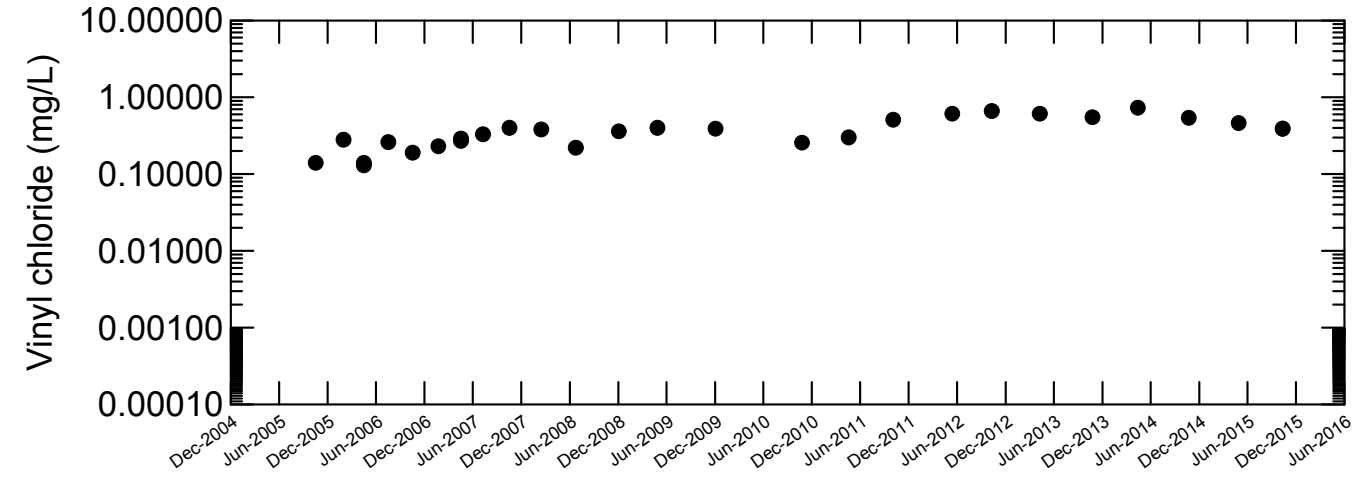
Non-detects are shown as the laboratory detection limit.

MW 40

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

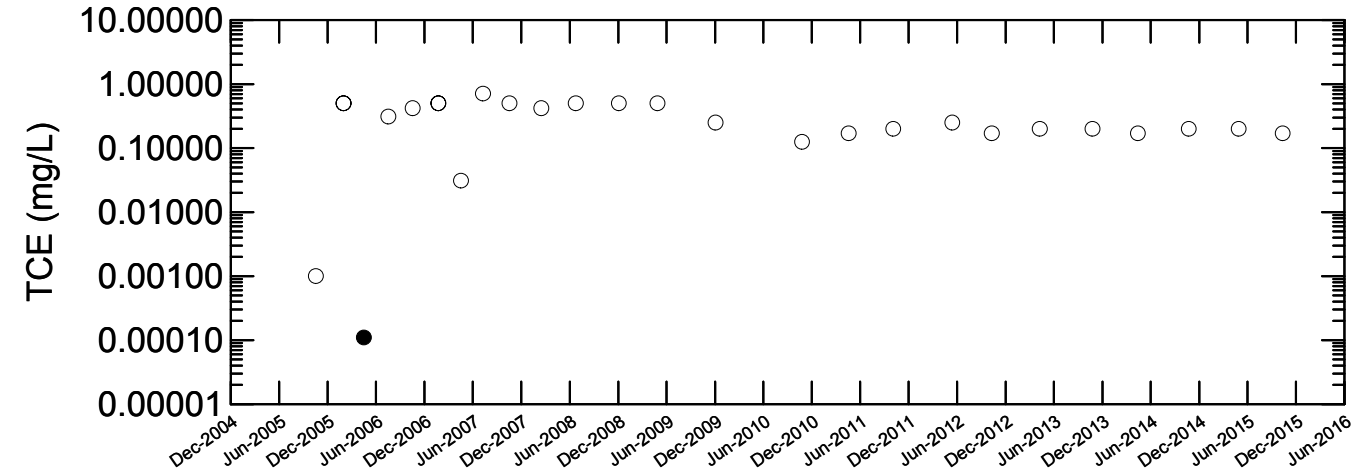
● Detected Result
○ Non-Detect Result

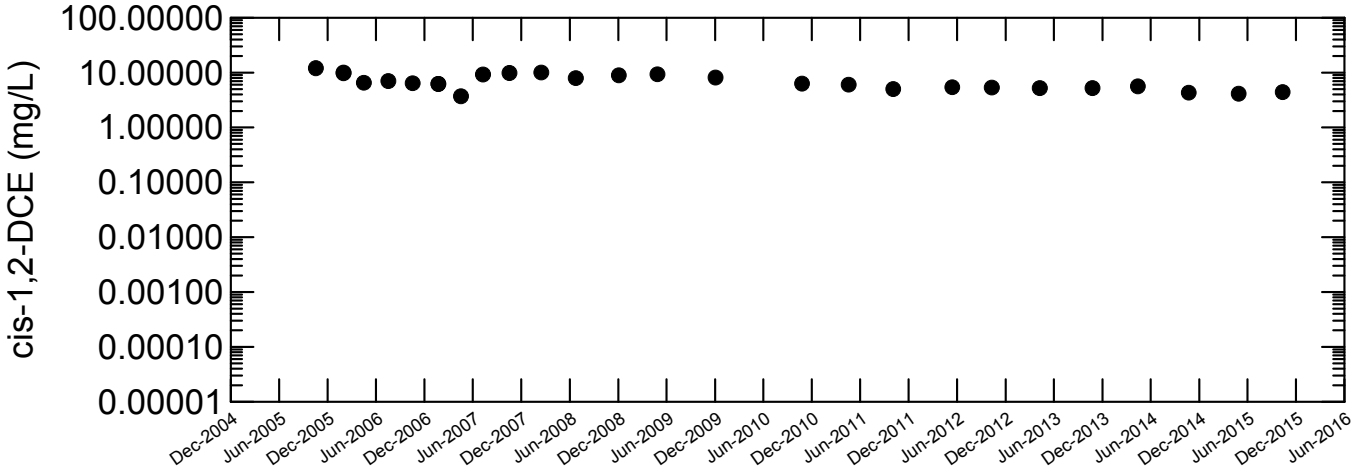
Note:

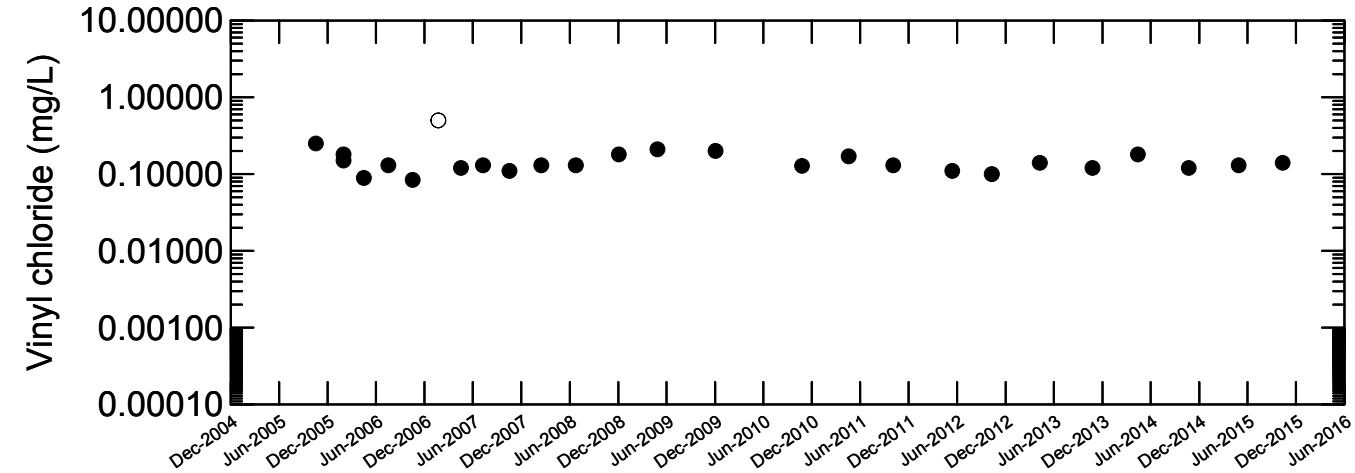
Non-detects are shown as the laboratory detection limit.

MW 41

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

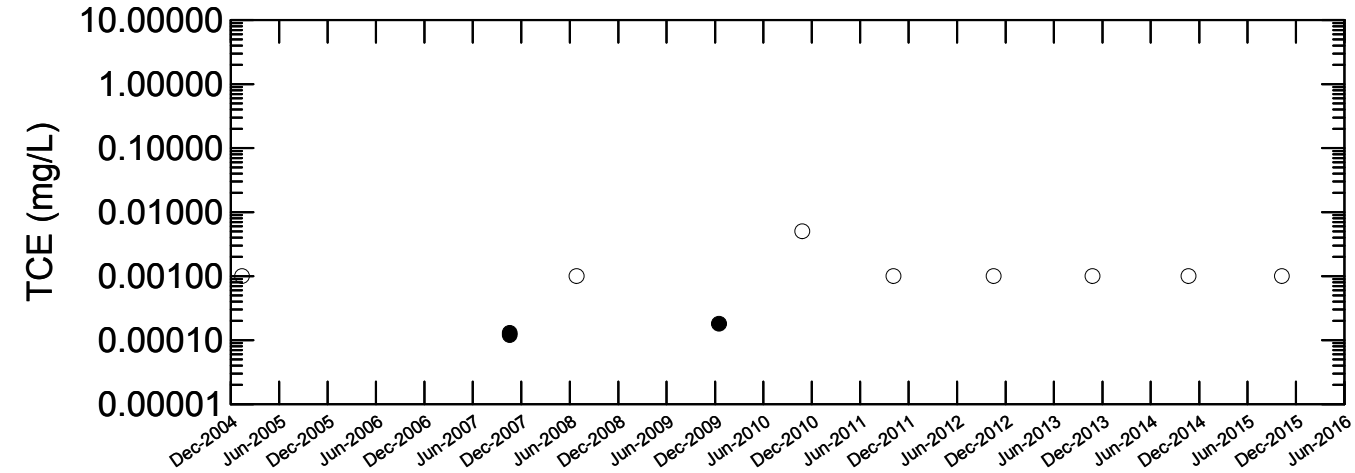
● Detected Result
○ Non-Detect Result

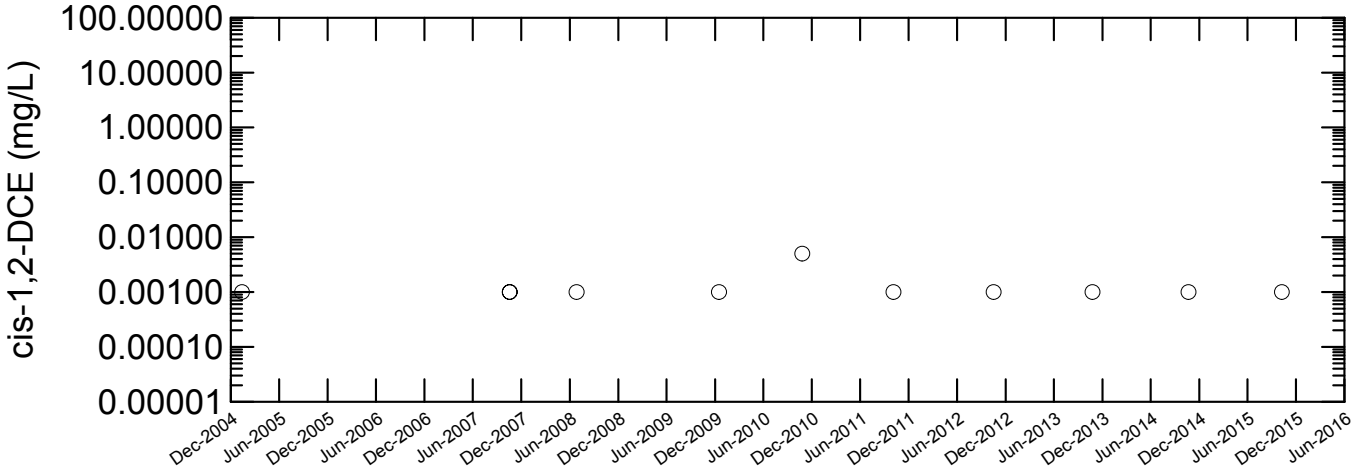
Note:

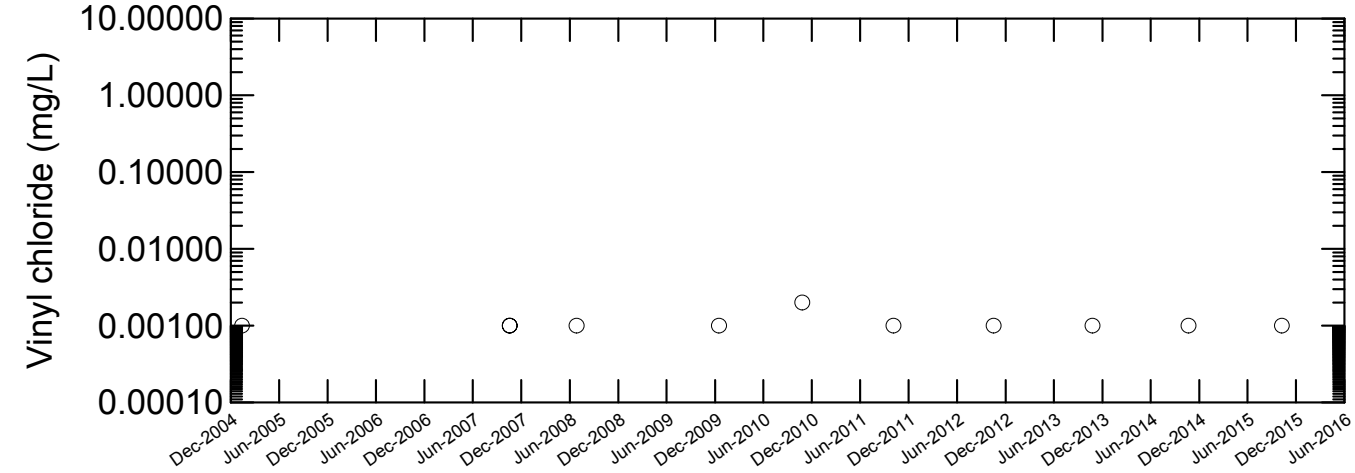
Non-detects are shown as the laboratory detection limit.

MW 42

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

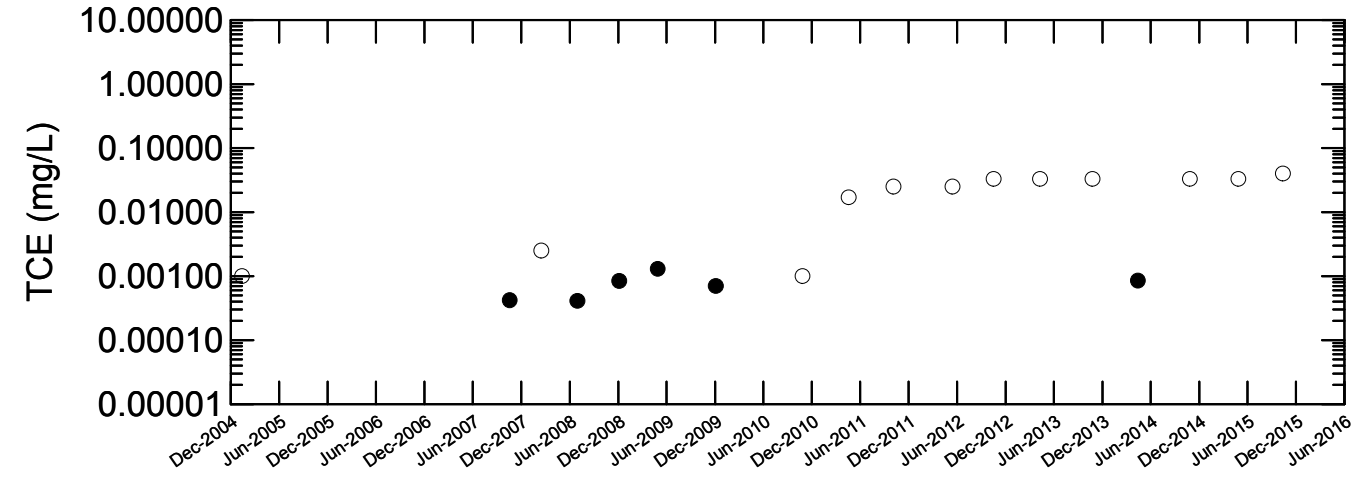
- ● Detected Result
- ○ Non-Detect Result

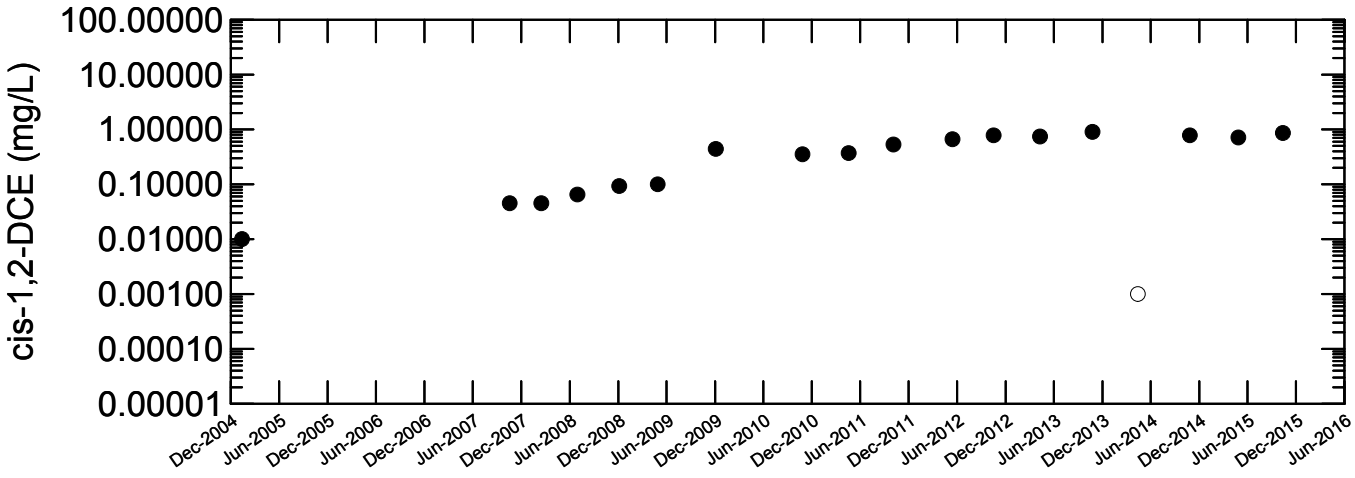
Note:

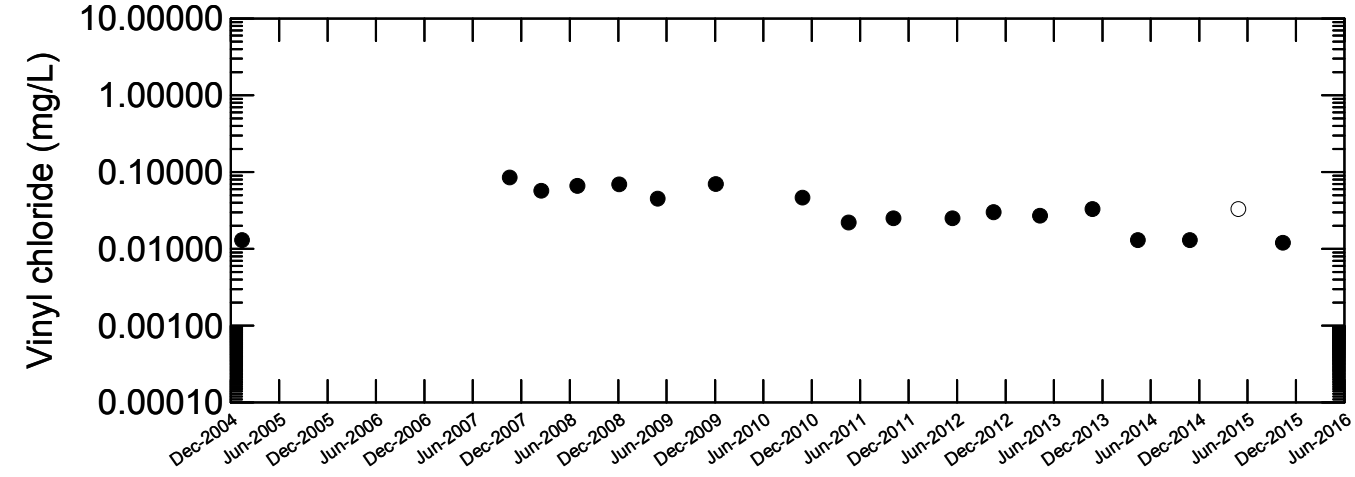
Non-detects are shown as the laboratory detection limit.

MW 46

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

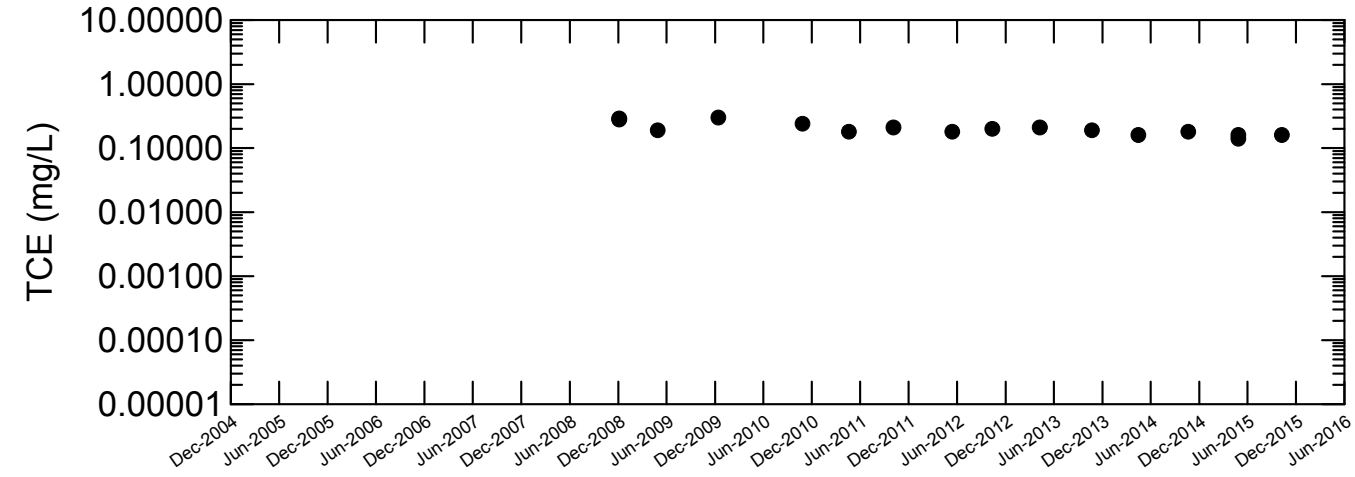
- ● Detected Result
- ○ Non-Detect Result

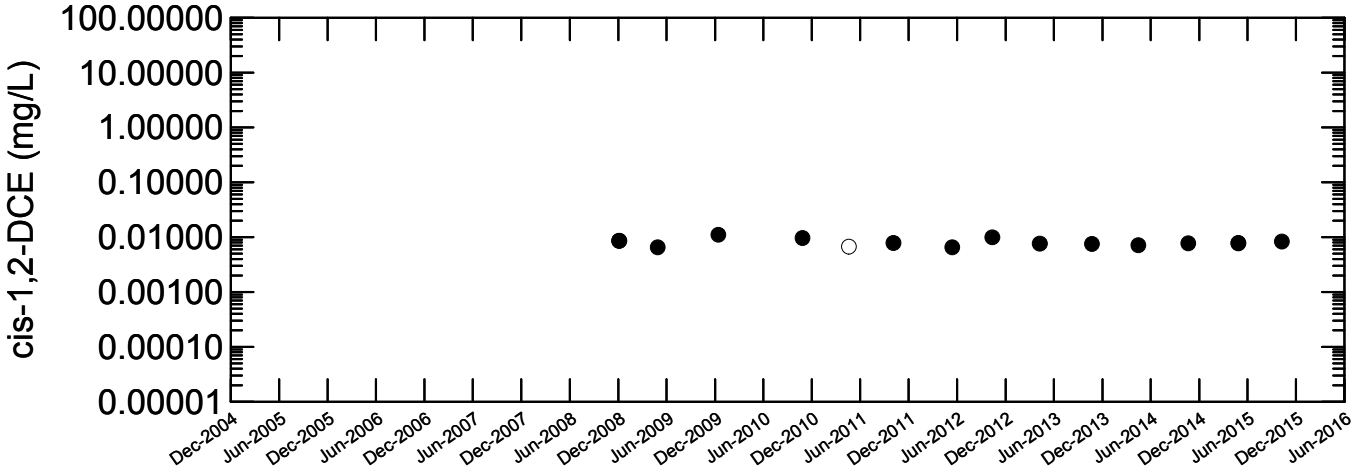
Note:

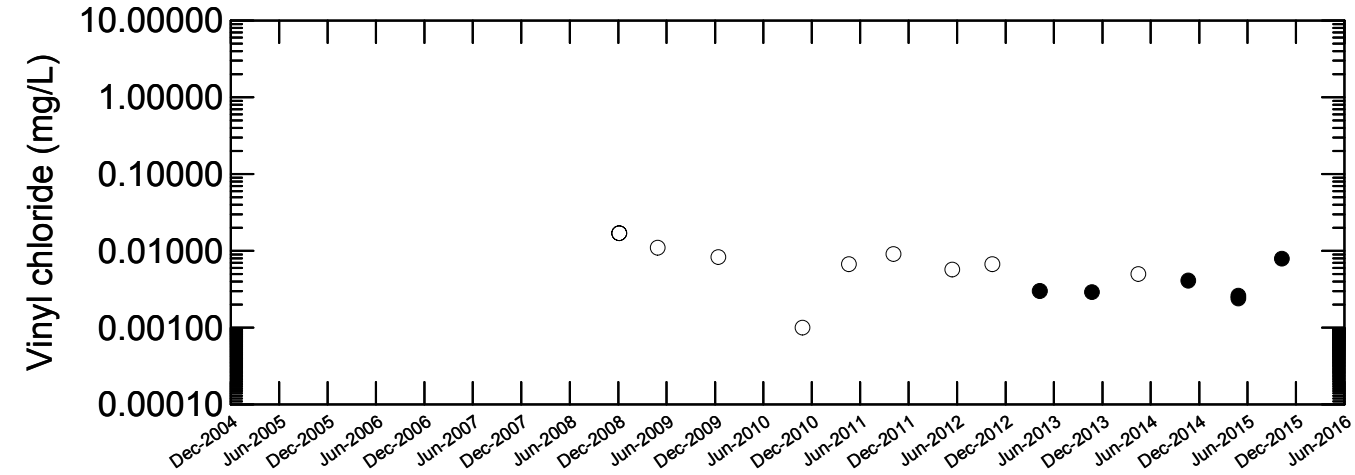
Non-detects are shown as the laboratory detection limit.

MW 49

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

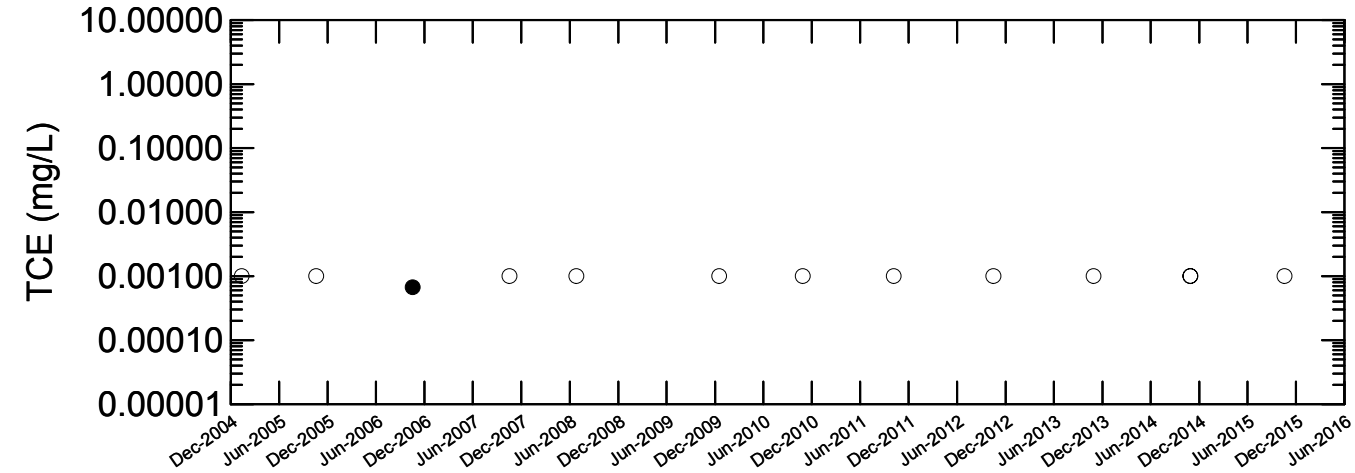
● Detected Result
○ Non-Detect Result

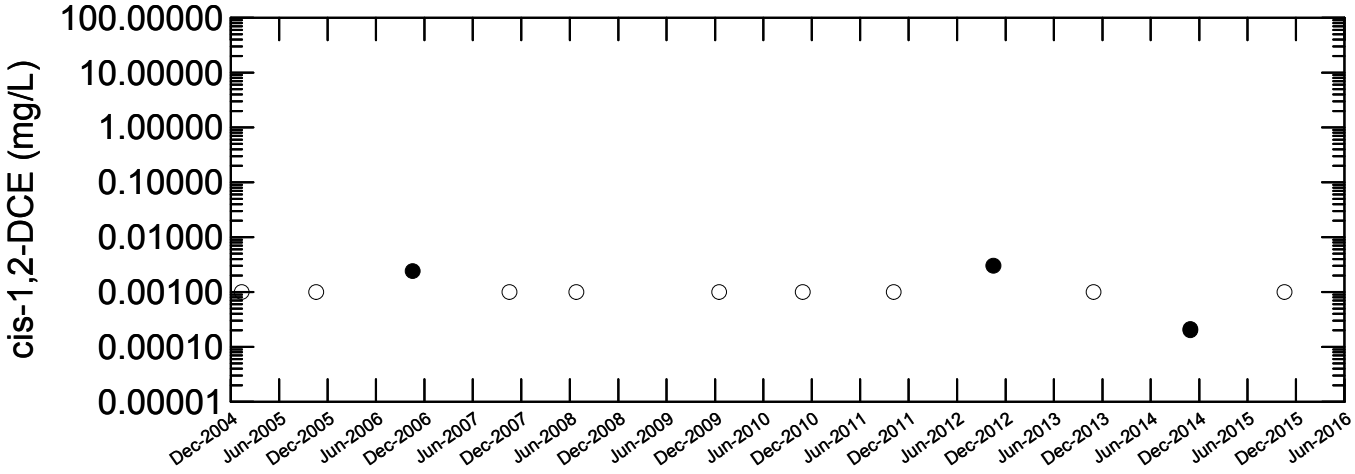
Note:

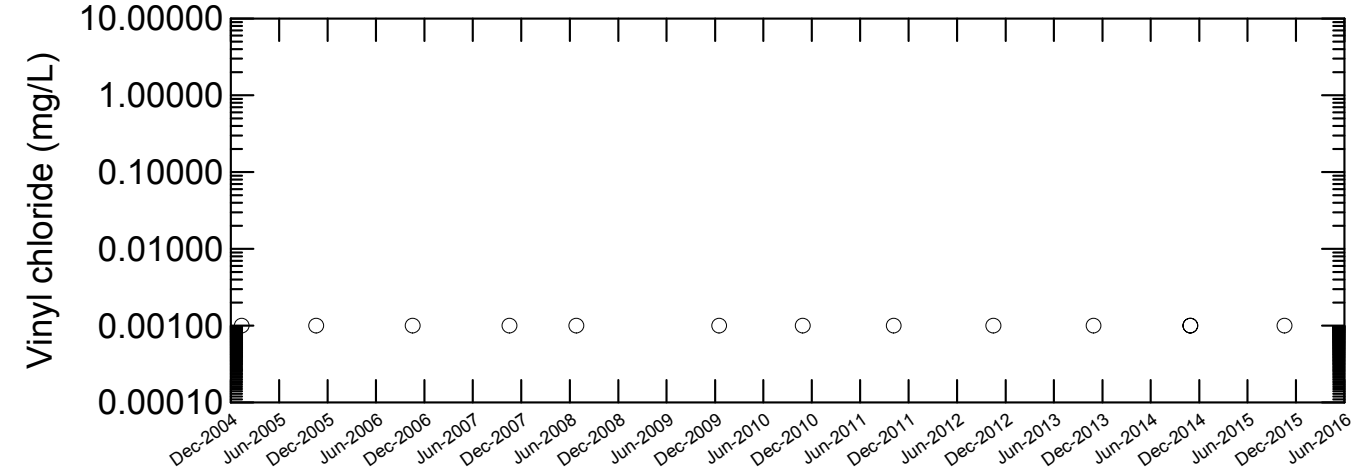
Non-detects are shown as the laboratory detection limit.

MW 51

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

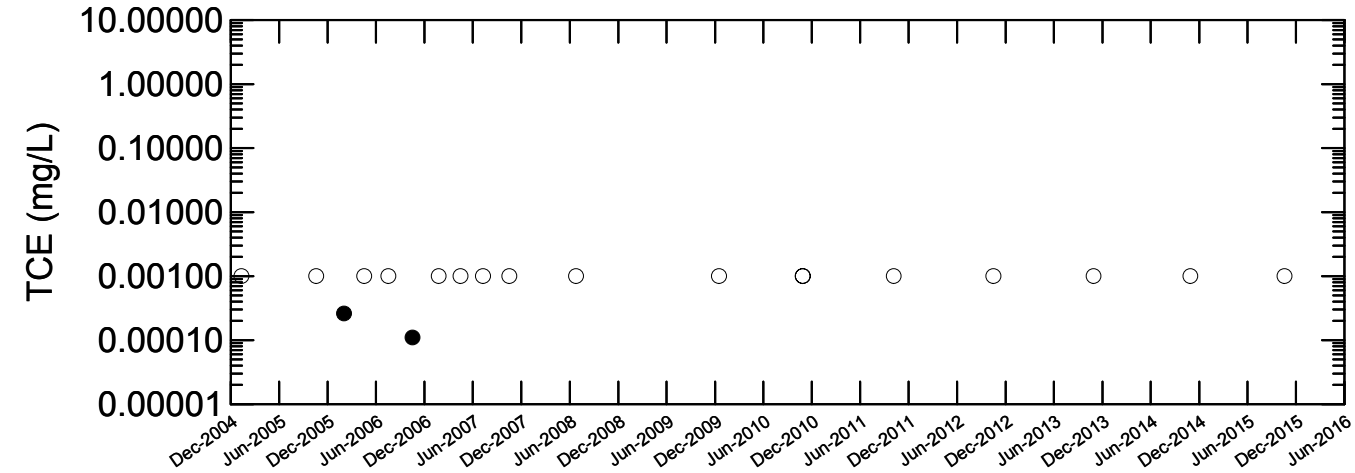
● Detected Result
○ Non-Detect Result

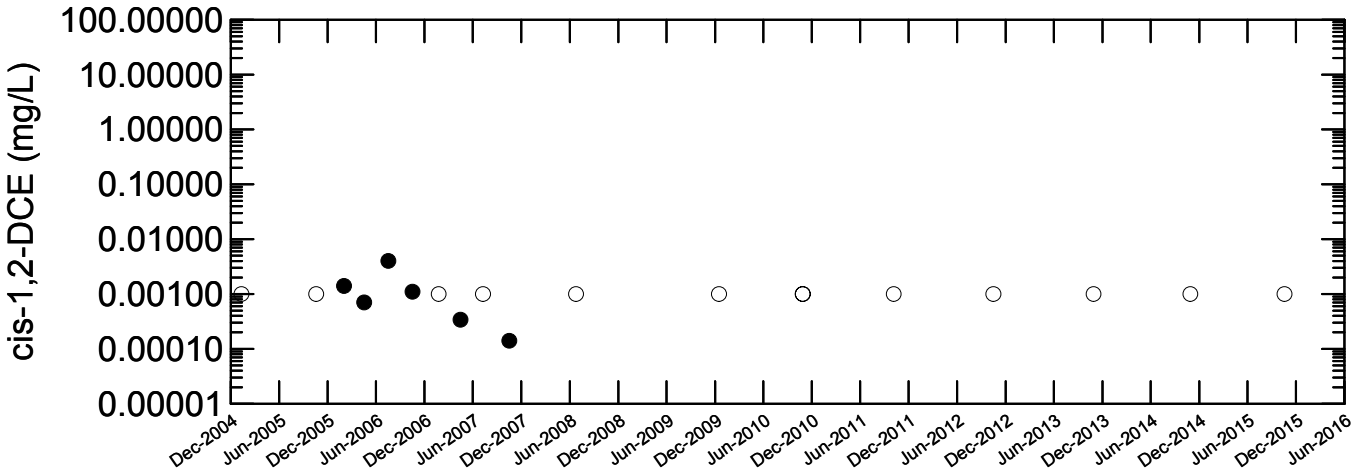
Note:

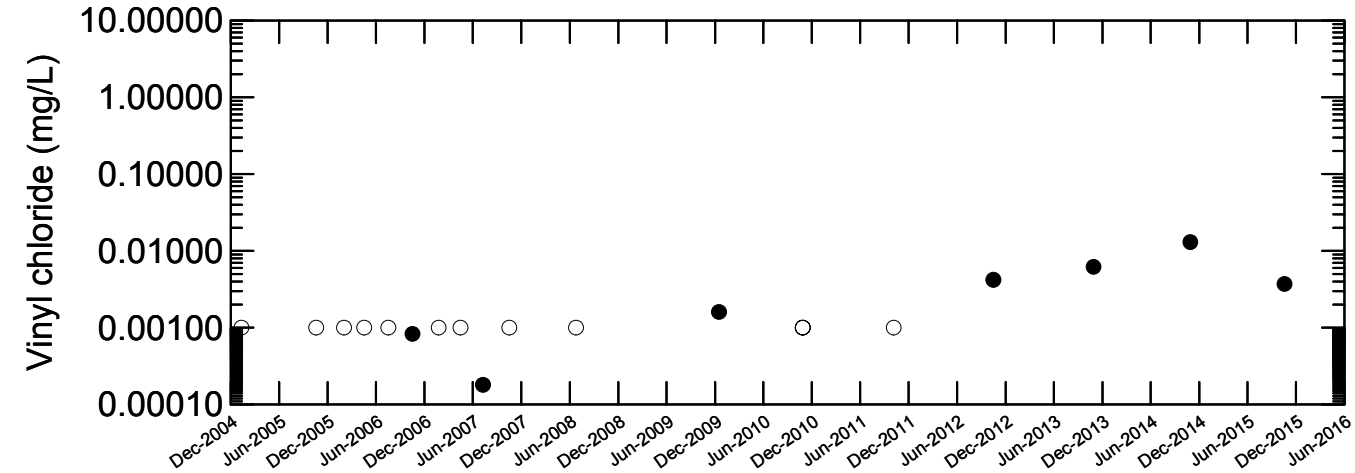
Non-detects are shown as the laboratory detection limit.

MW 56

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
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Anderson, Indiana







Legend:

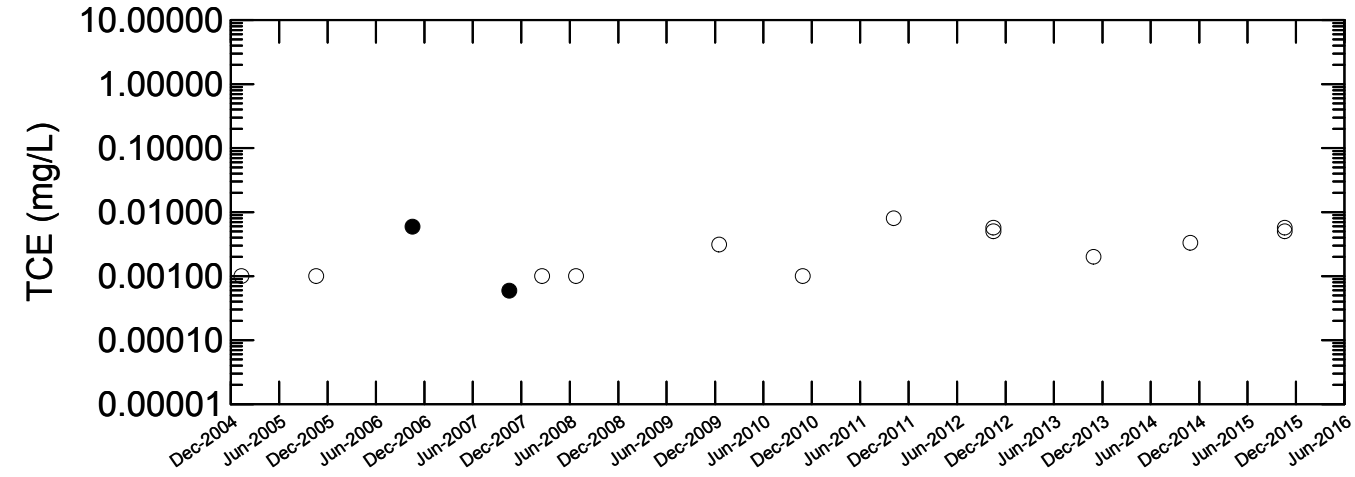
● Detected Result
○ Non-Detect Result

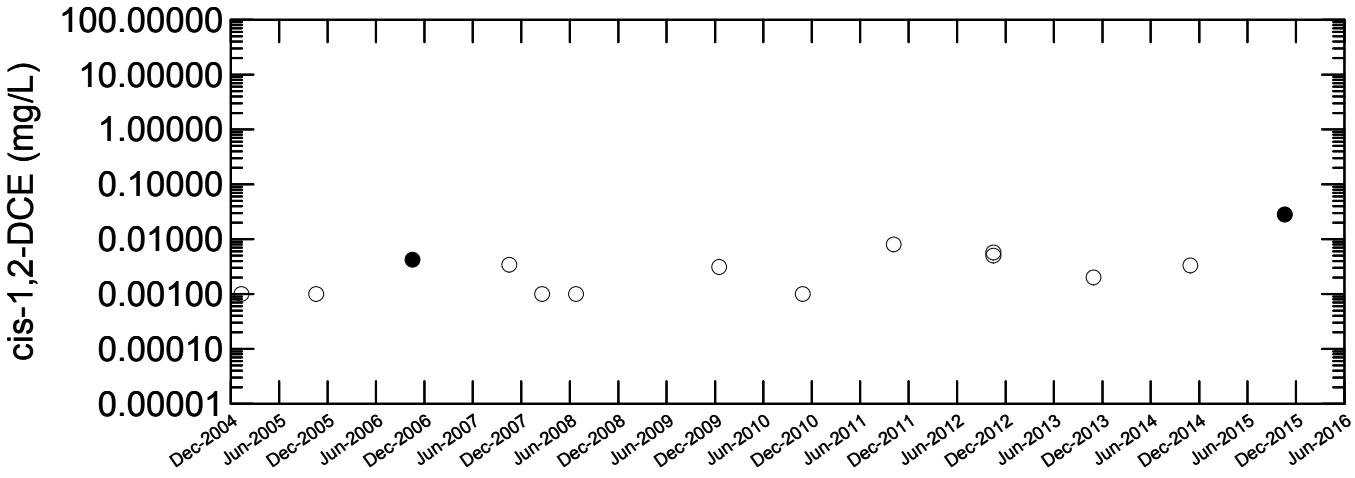
Note:

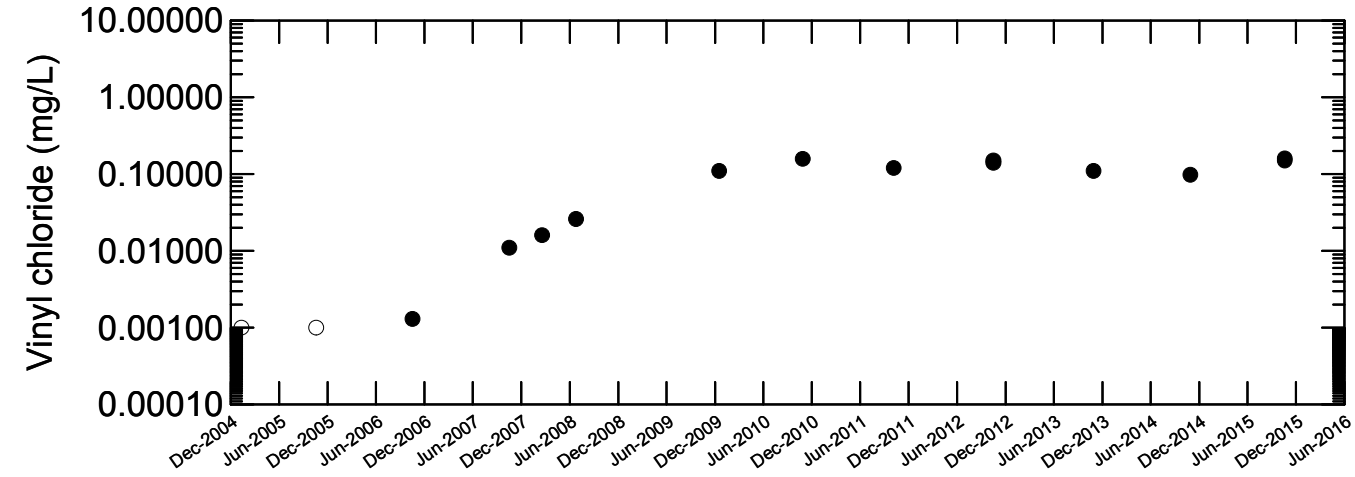
Non-detects are shown as the laboratory detection limit.

MW 57

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
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Anderson, Indiana







Legend:

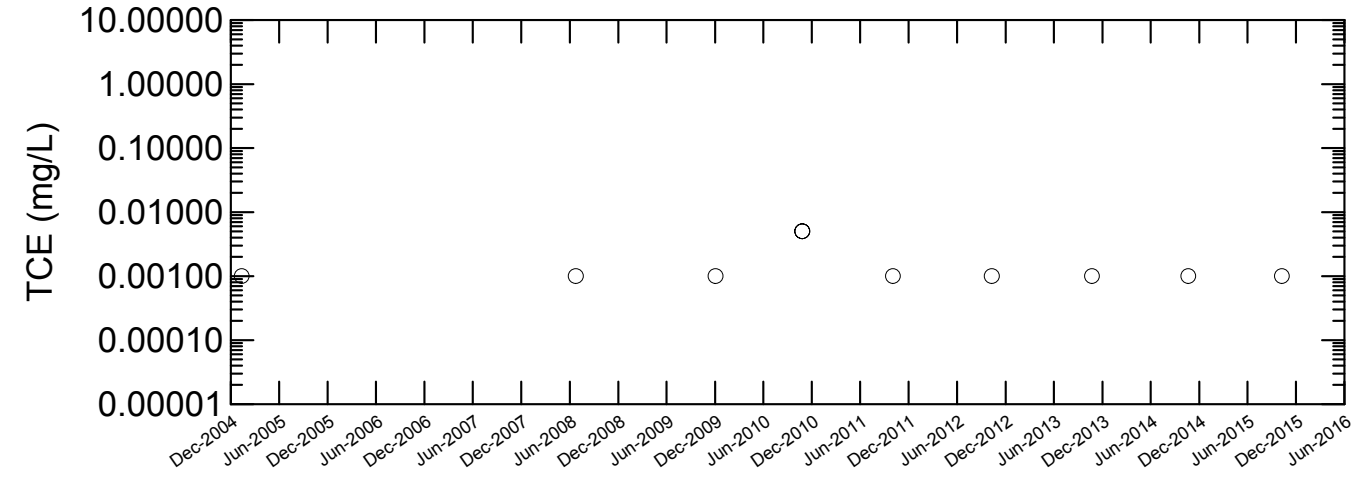
● Detected Result
○ Non-Detect Result

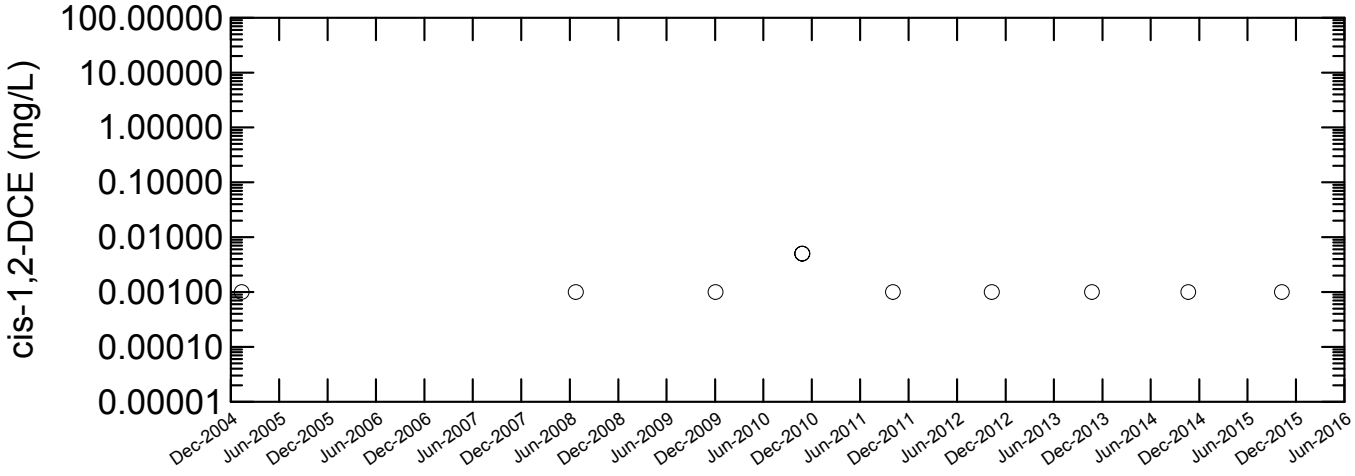
Note:

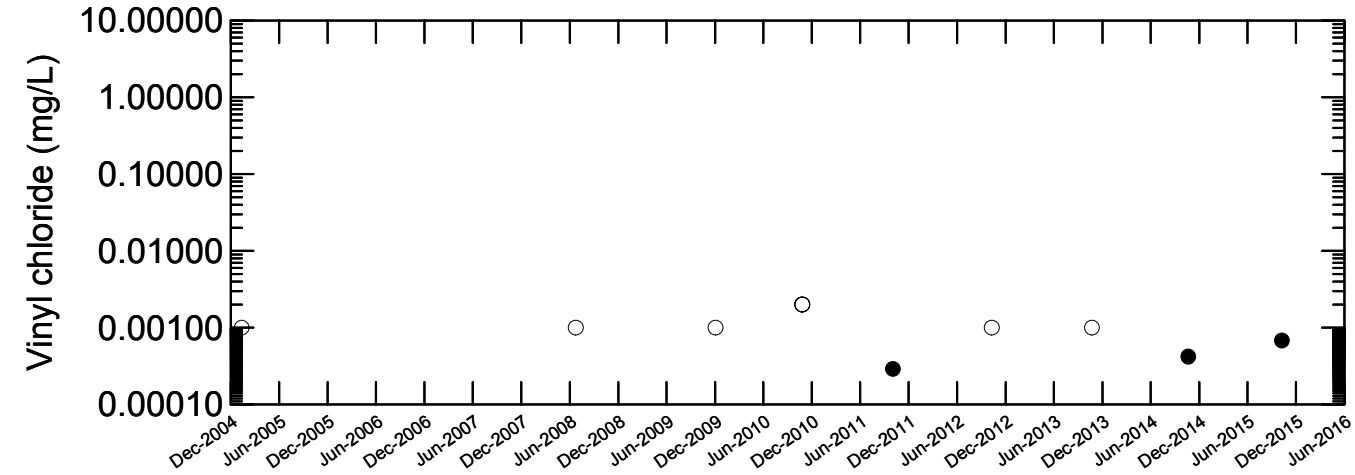
Non-detects are shown as the laboratory detection limit.

MW 58

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

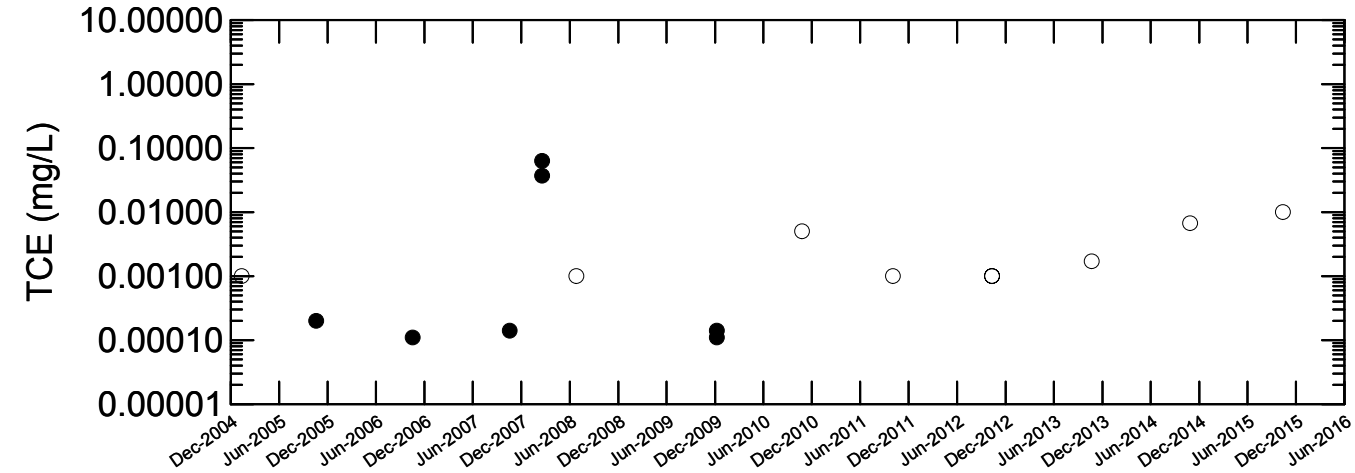
- ● Detected Result
- ○ Non-Detect Result

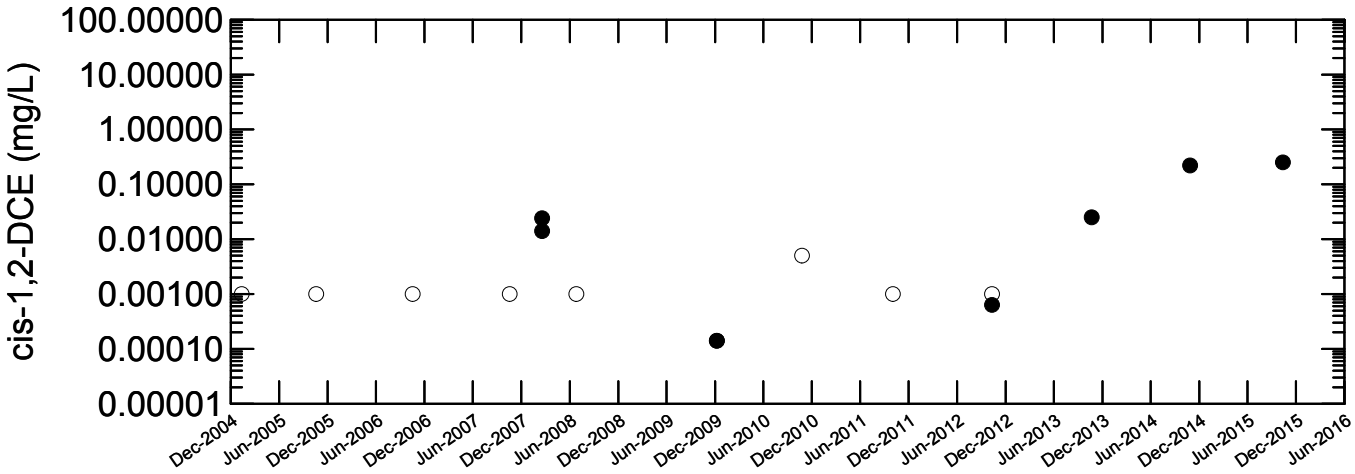
Note:

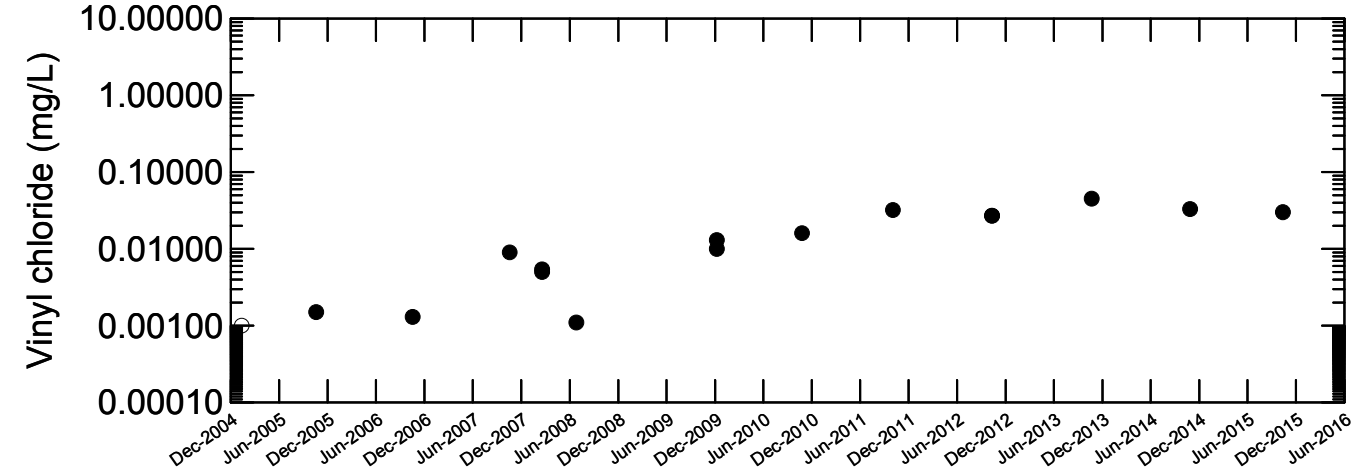
Non-detects are shown as the laboratory detection limit.

MW 61

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
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Legend:

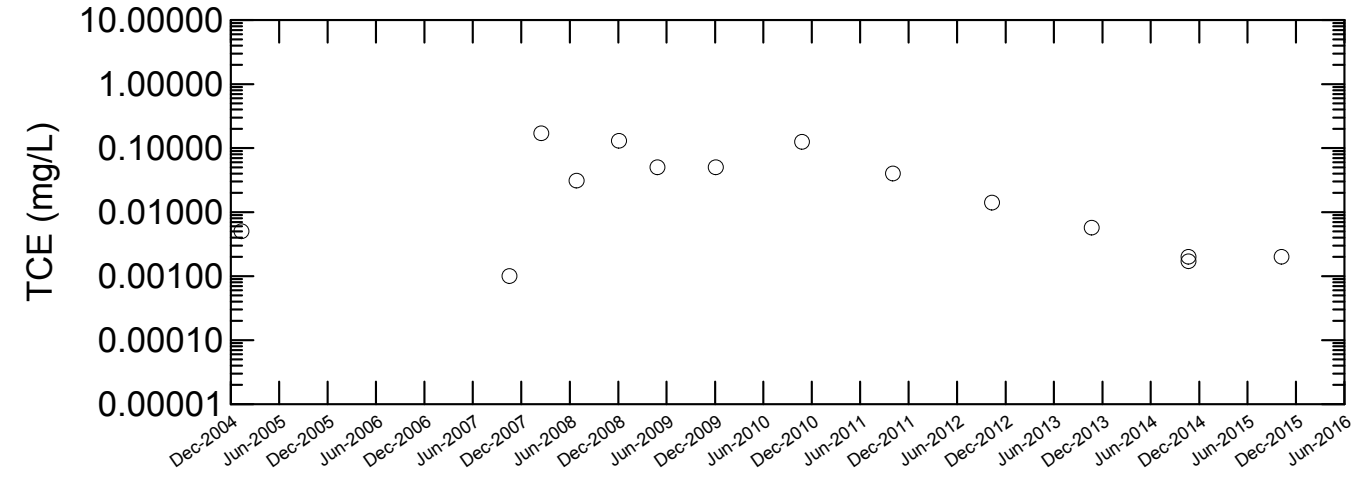
- ● Detected Result
- ○ Non-Detect Result

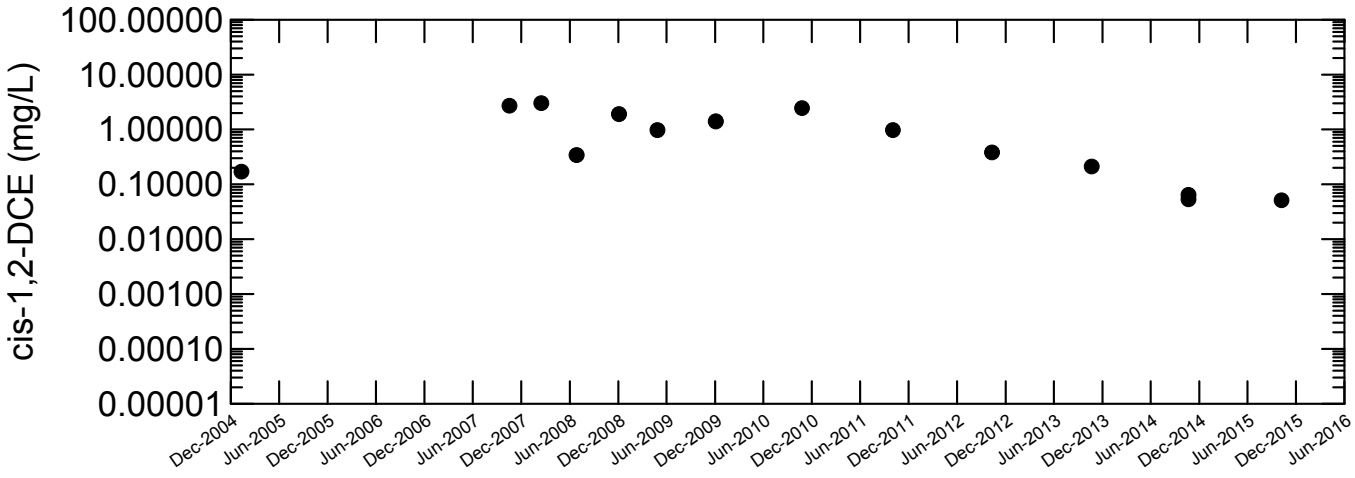
Note:

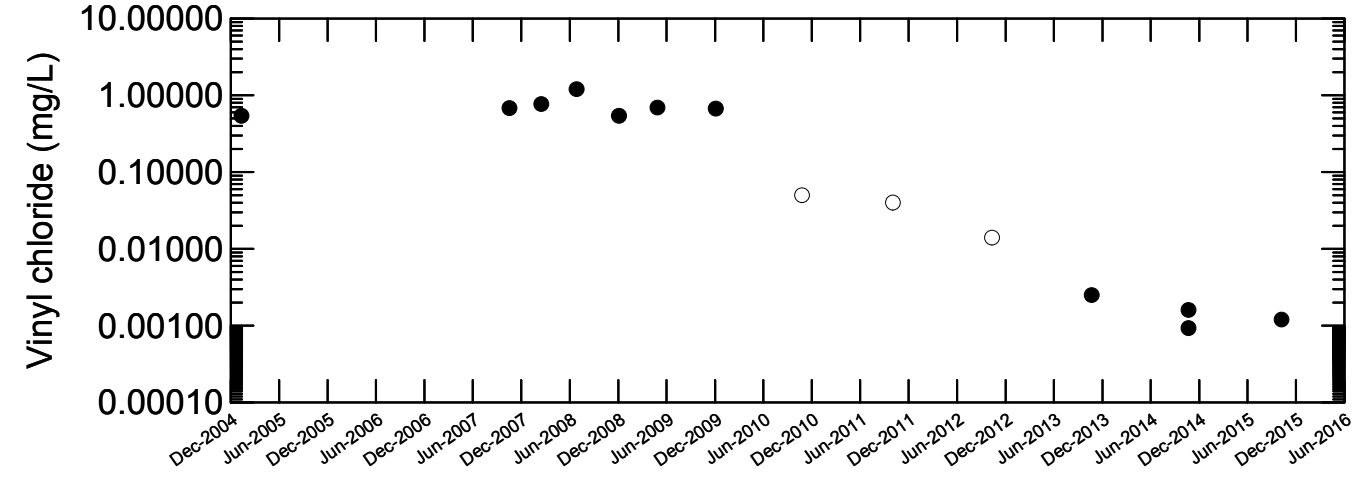
Non-detects are shown as the laboratory detection limit.

MW 64

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

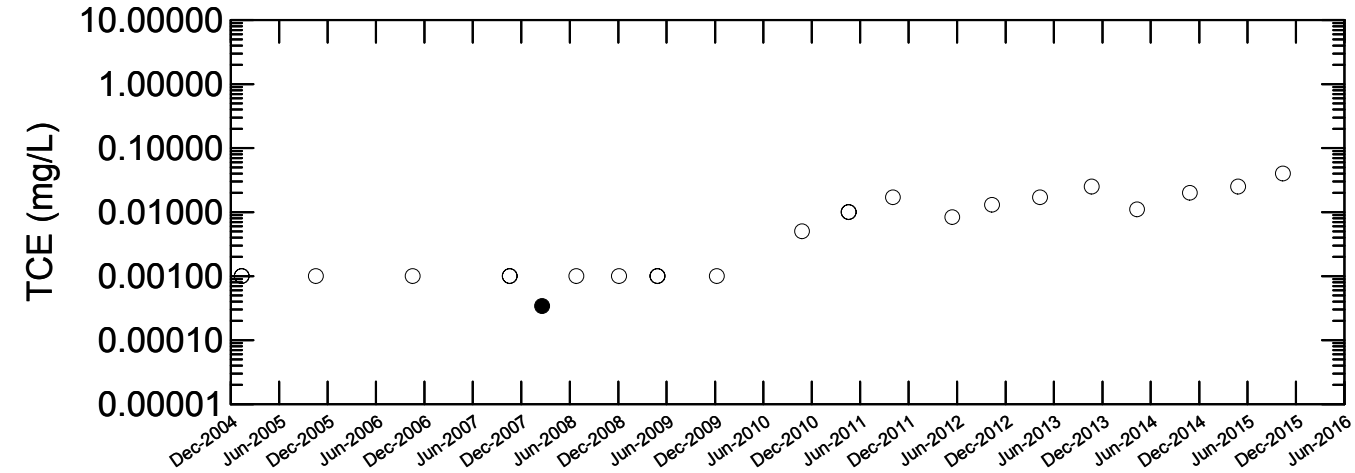
● Detected Result
○ Non-Detect Result

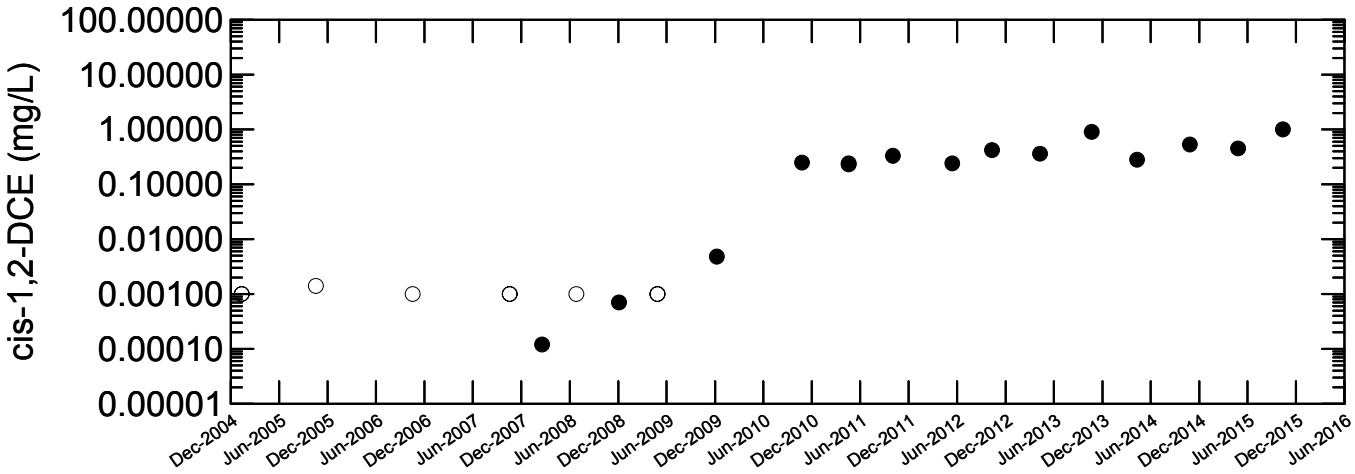
Note:

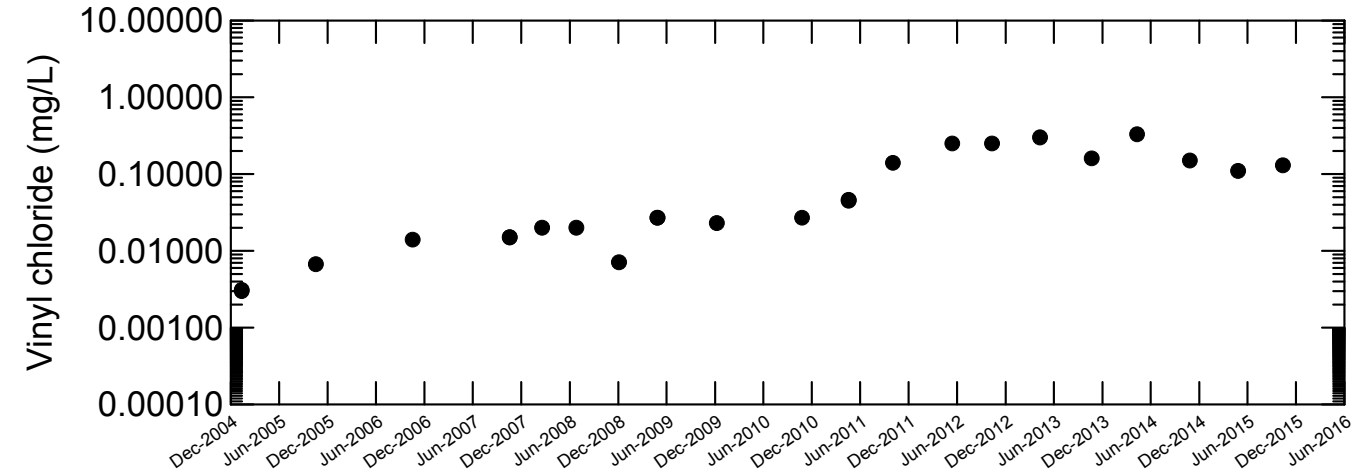
Non-detects are shown as the laboratory detection limit.

MW 65

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

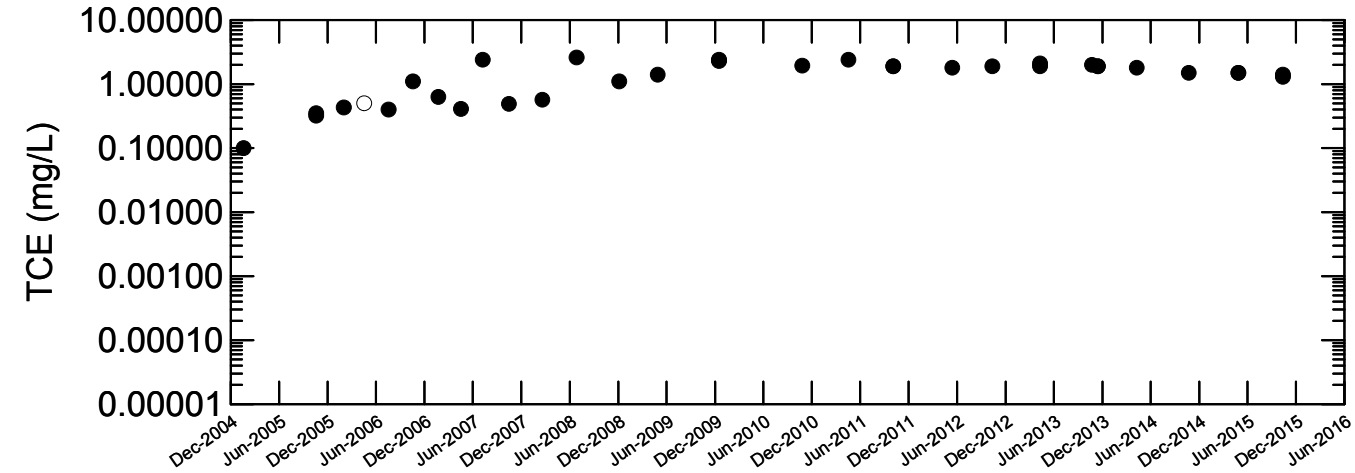
- ● Detected Result
- ○ Non-Detect Result

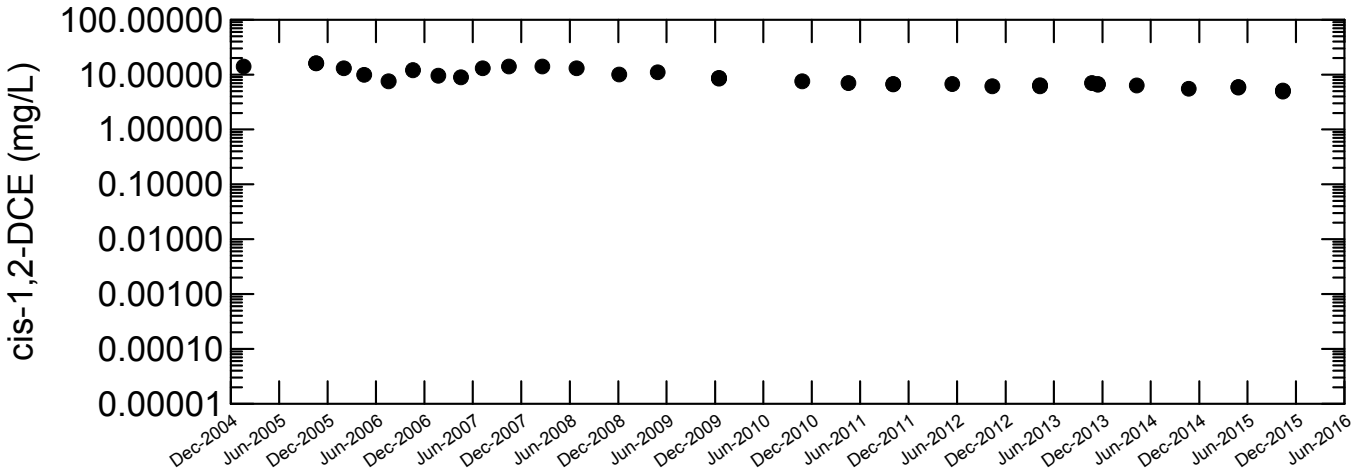
Note:

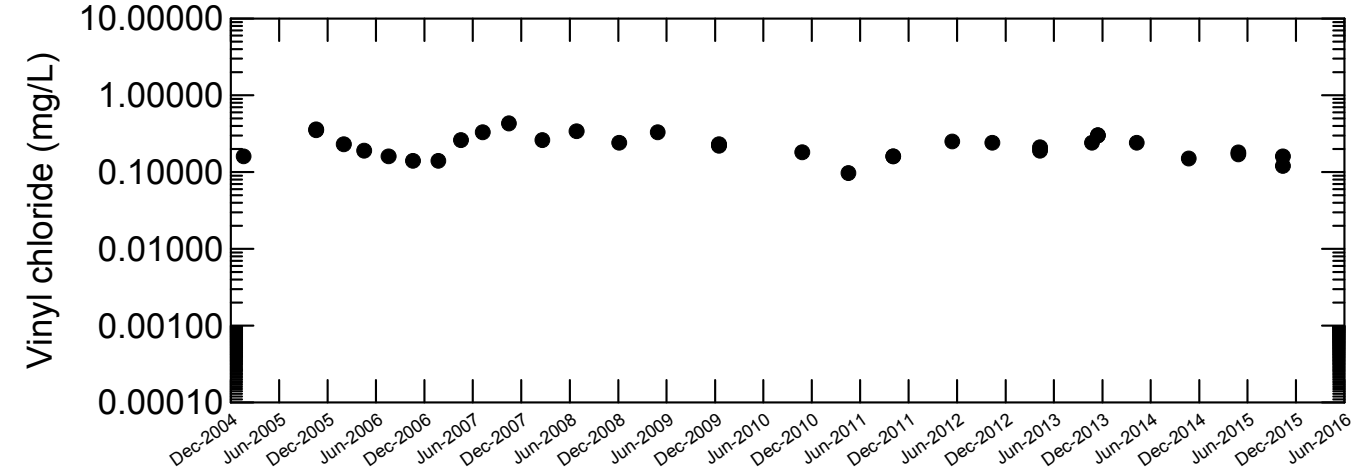
Non-detects are shown as the laboratory detection limit.

MW 66

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

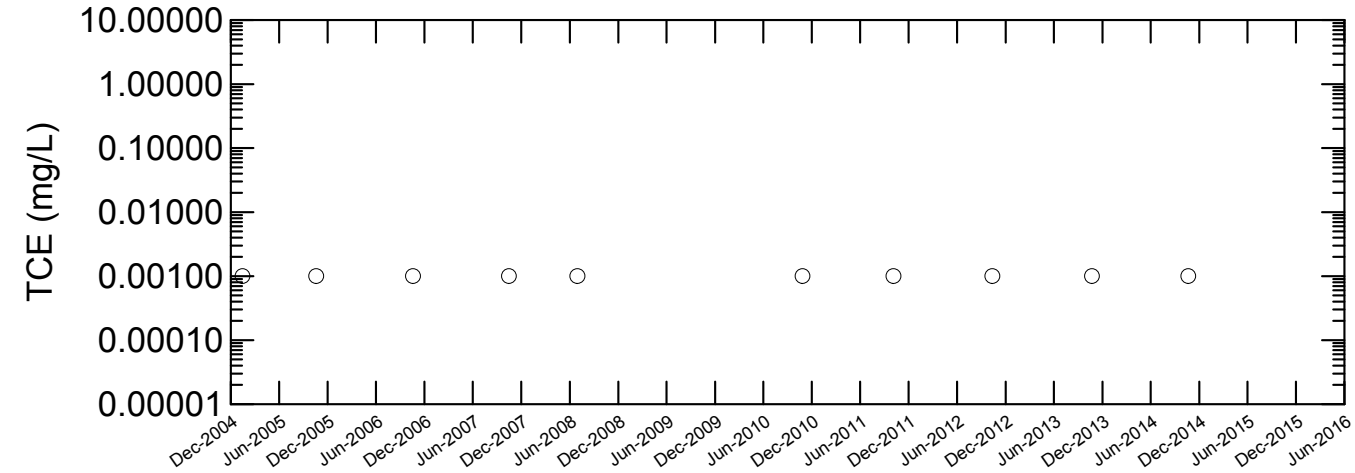
● Detected Result
○ Non-Detect Result

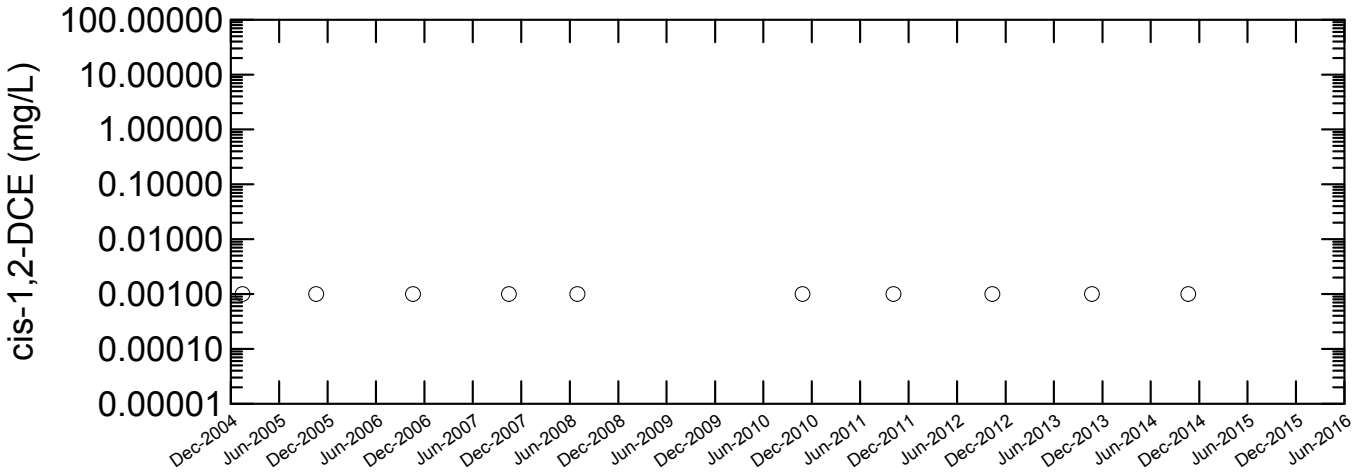
Note:

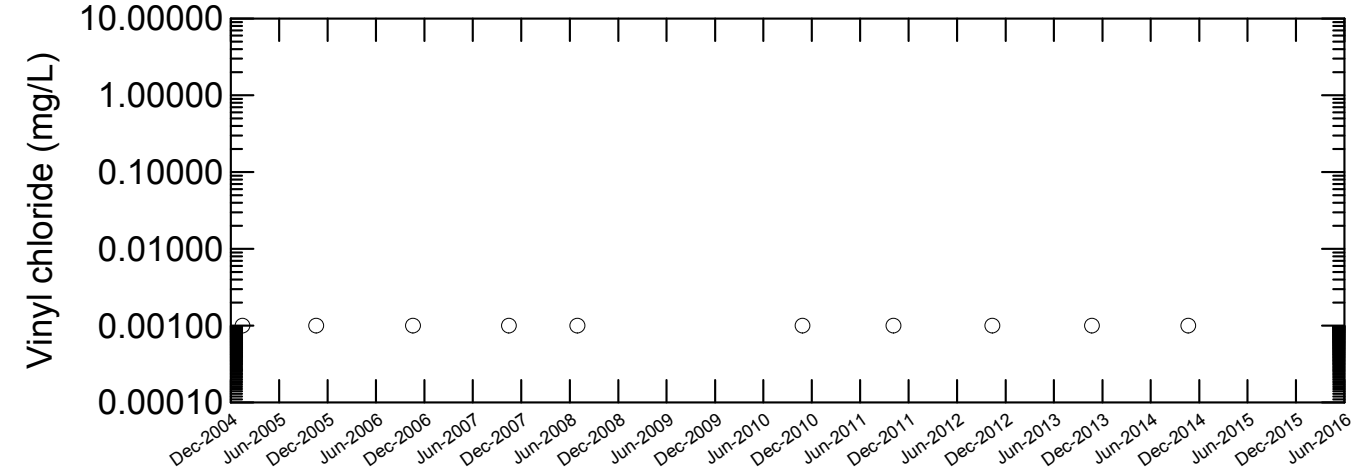
Non-detects are shown as the laboratory detection limit.

MW 68

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
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Anderson, Indiana







Legend:

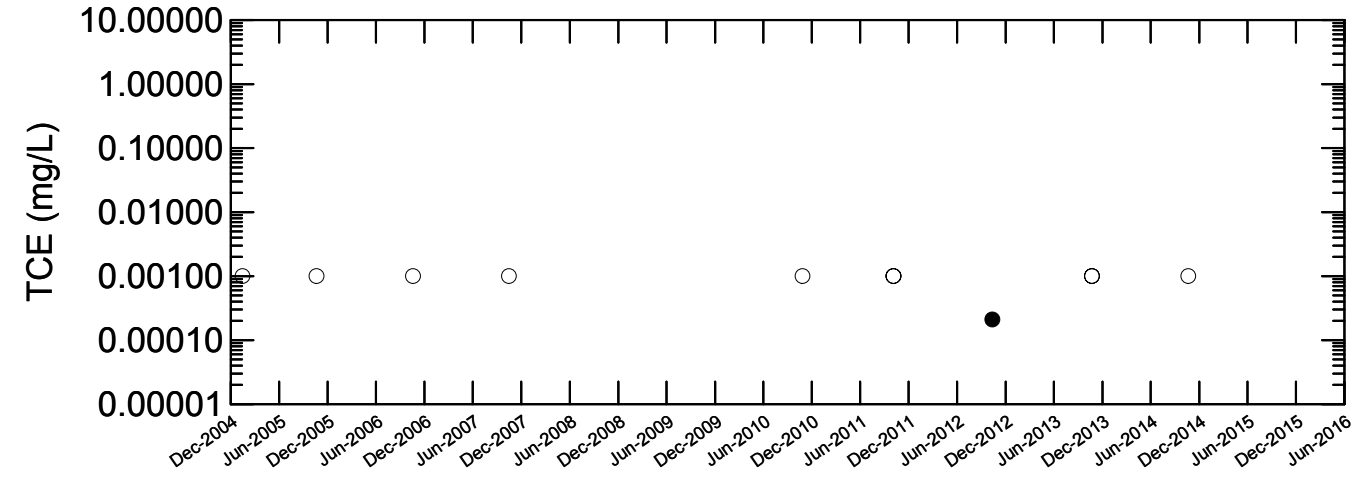
● Detected Result
○ Non-Detect Result

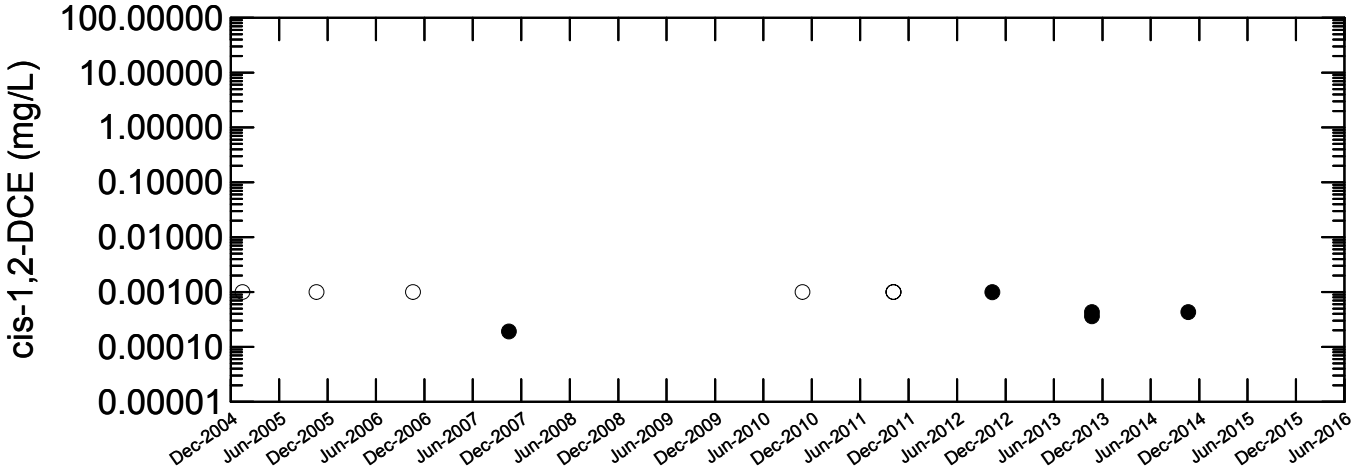
Note:

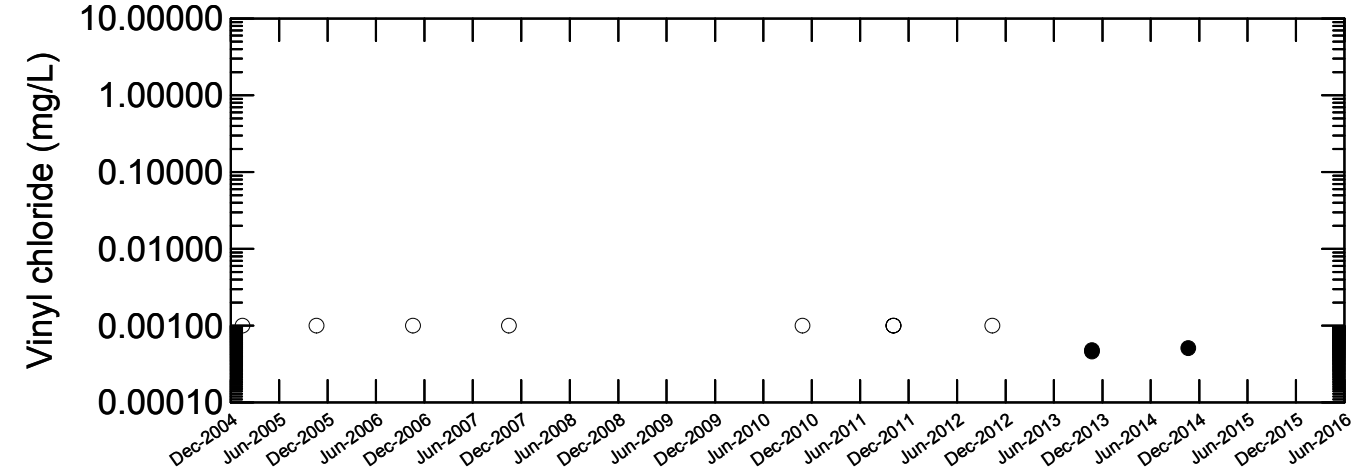
Non-detects are shown as the laboratory detection limit.

MW 75

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
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Anderson, Indiana







Legend:

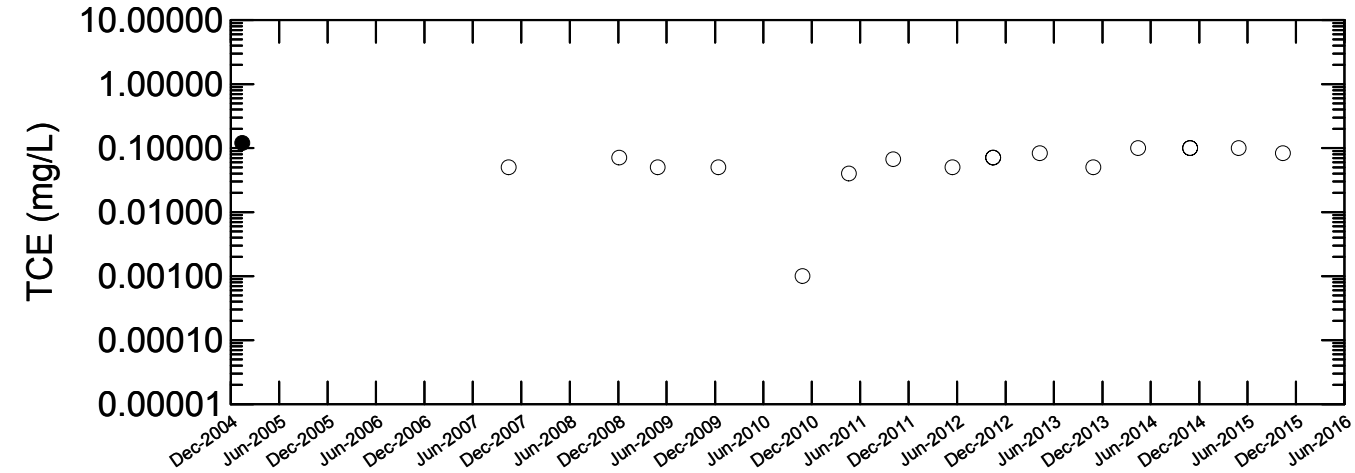
- ● Detected Result
- ○ Non-Detect Result

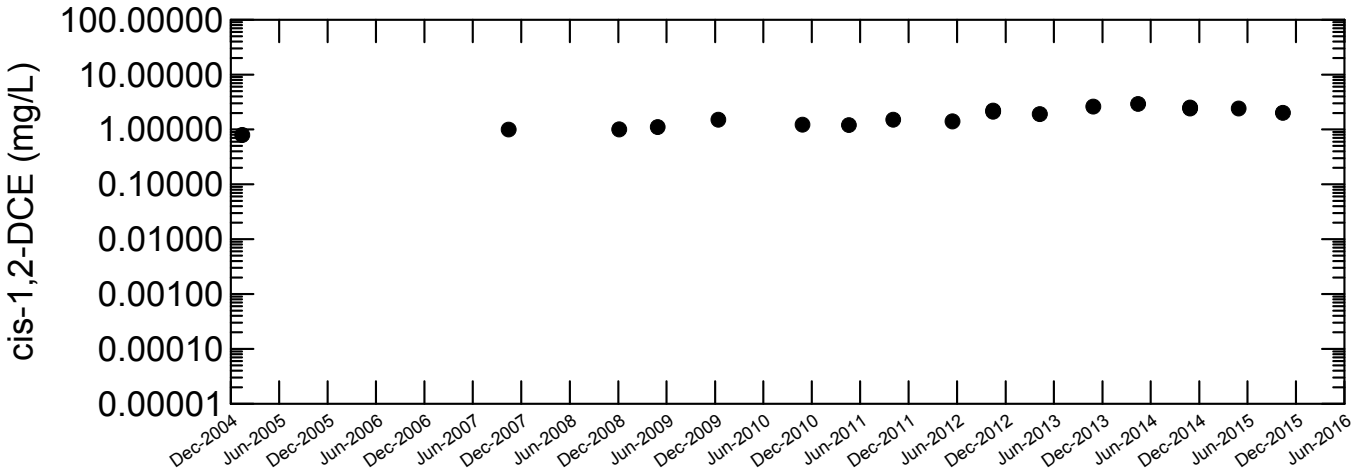
Note:

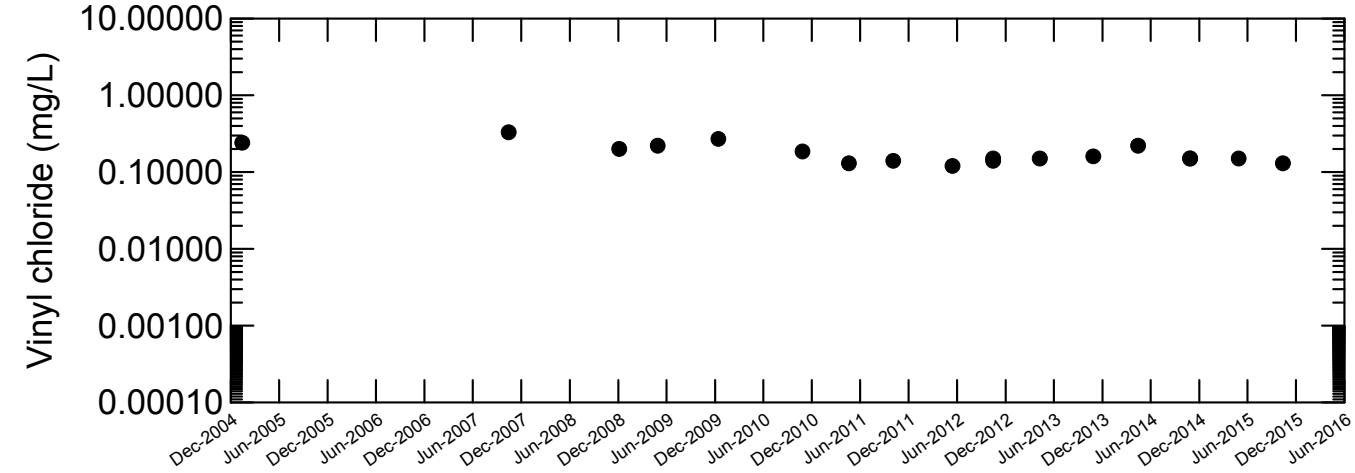
Non-detects are shown as the laboratory detection limit.

MW 76

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

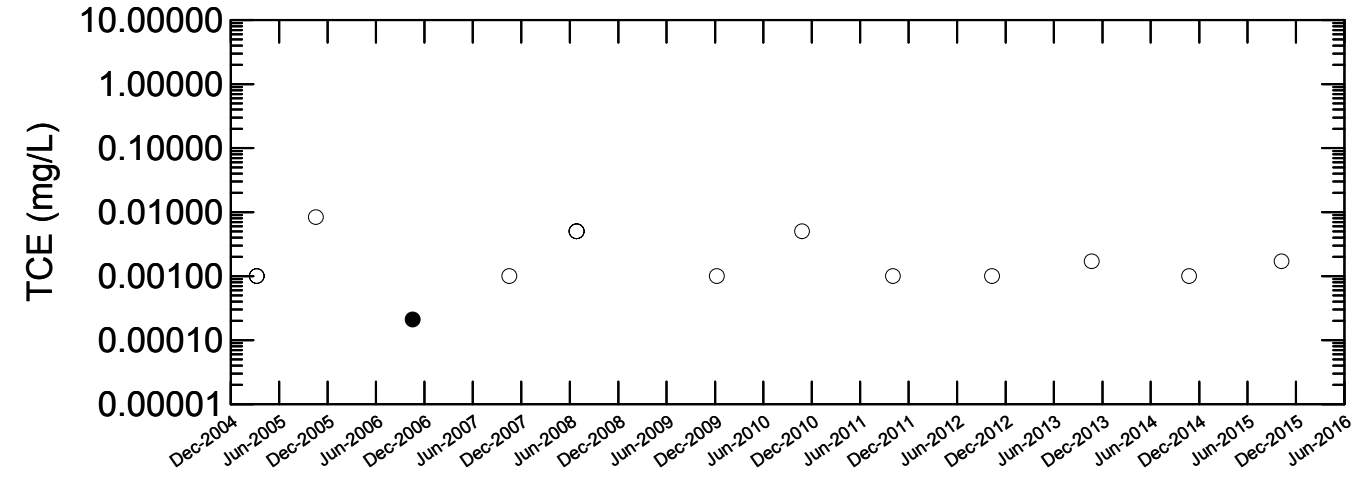
- ● Detected Result
- ○ Non-Detect Result

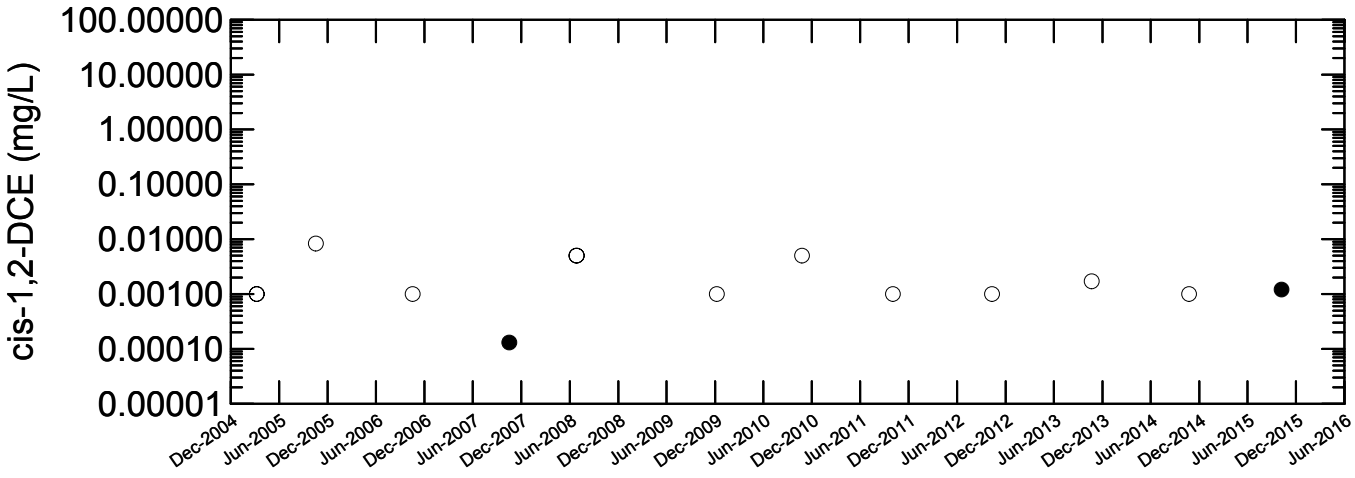
Note:

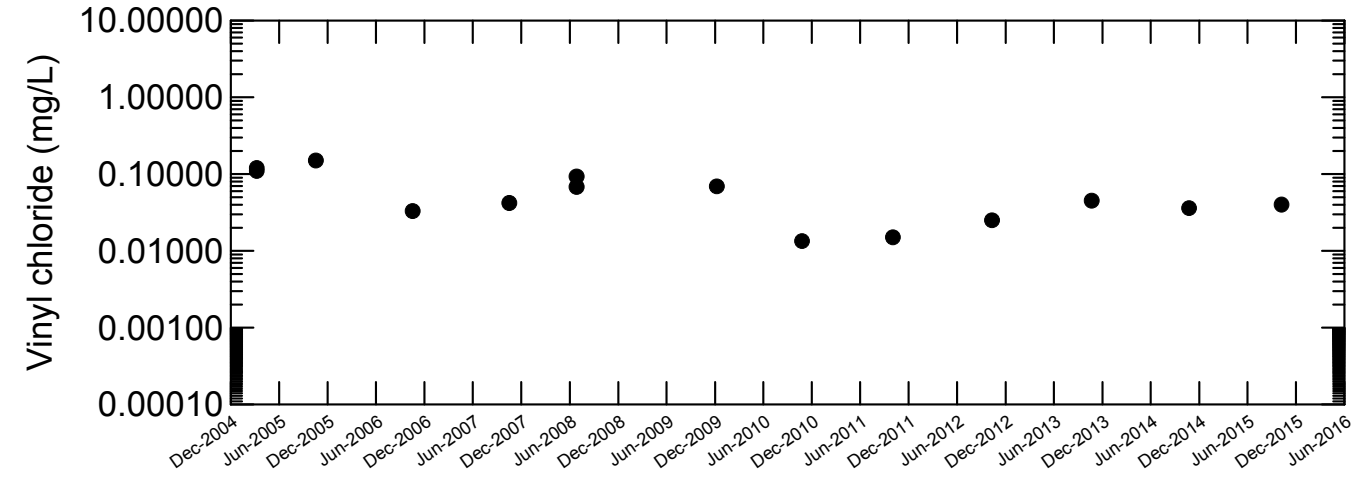
Non-detects are shown as the laboratory detection limit.

MW 79

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

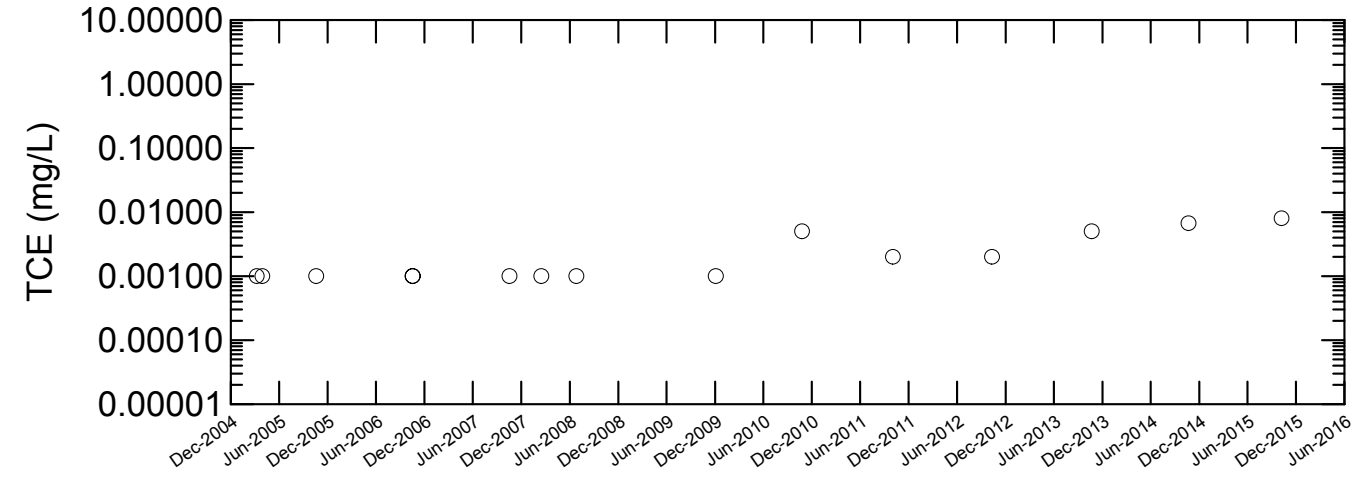
- ● Detected Result
- ○ Non-Detect Result

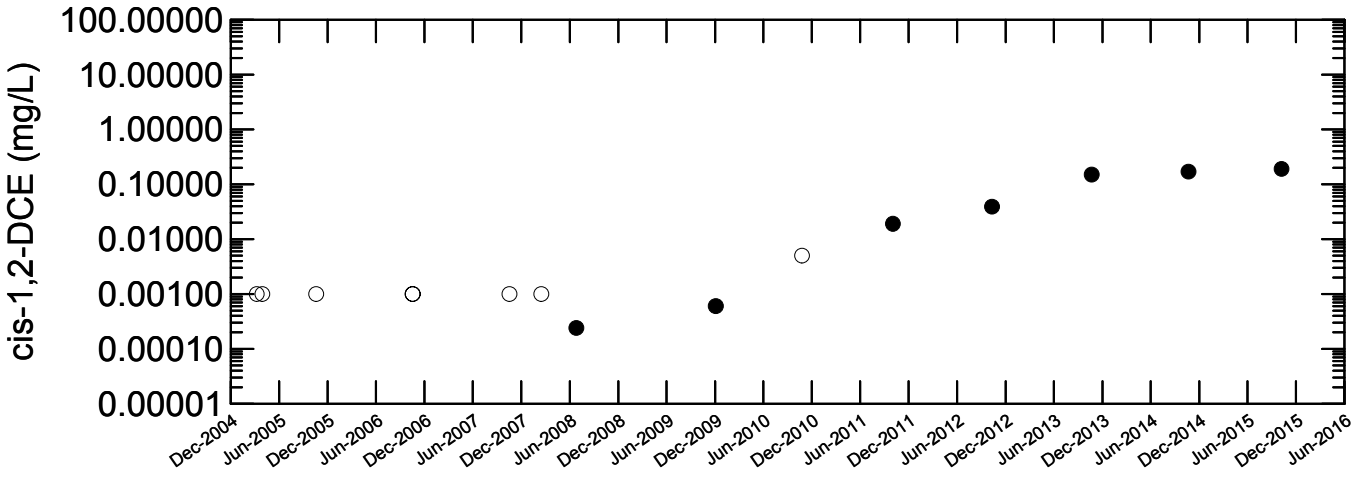
Note:

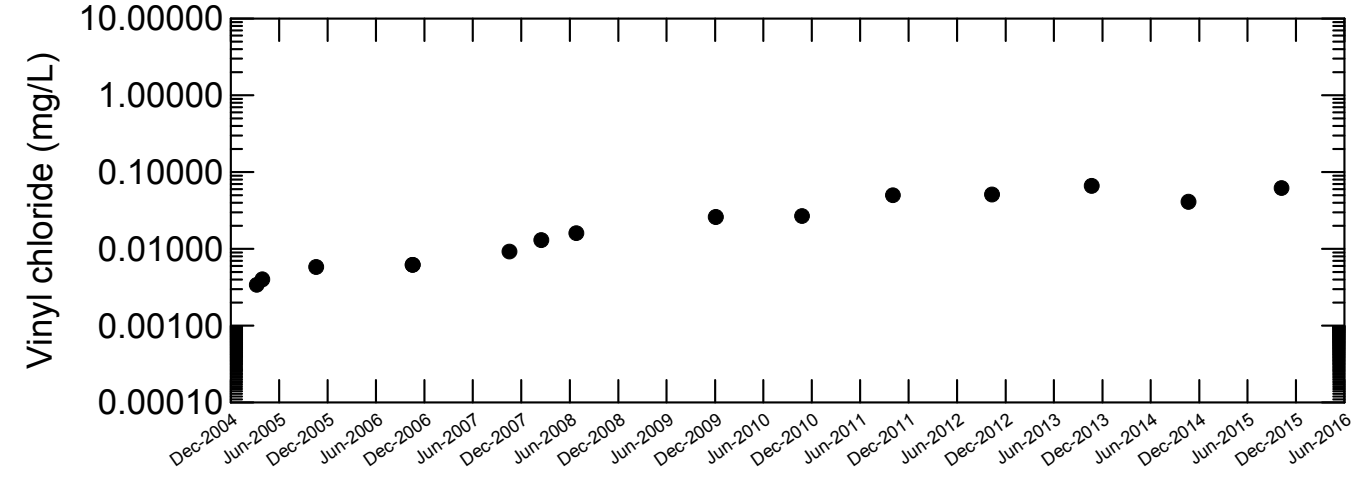
Non-detects are shown as the laboratory detection limit.

MW 80

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

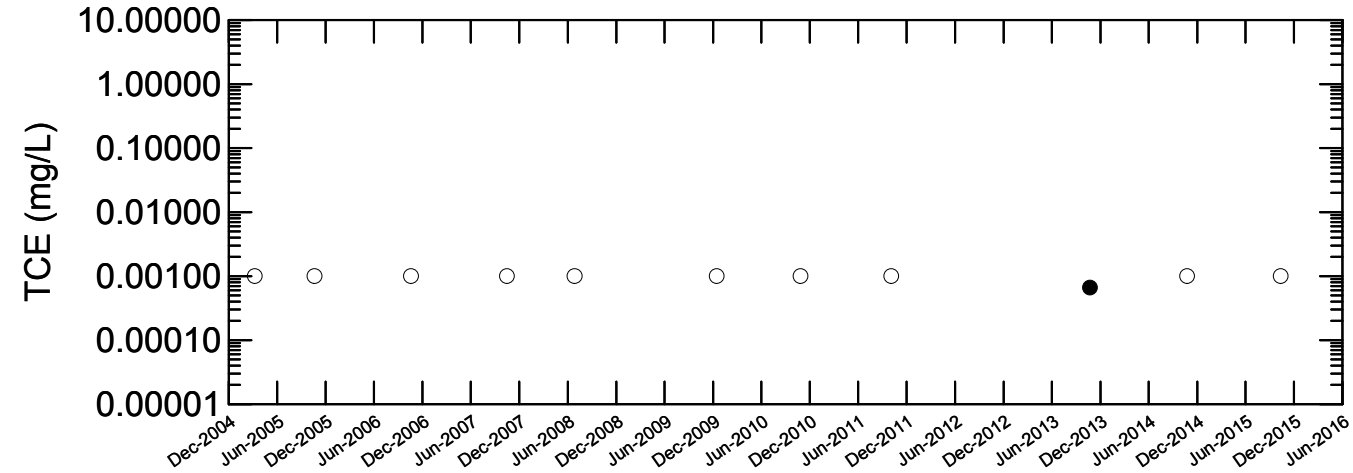
● Detected Result
○ Non-Detect Result

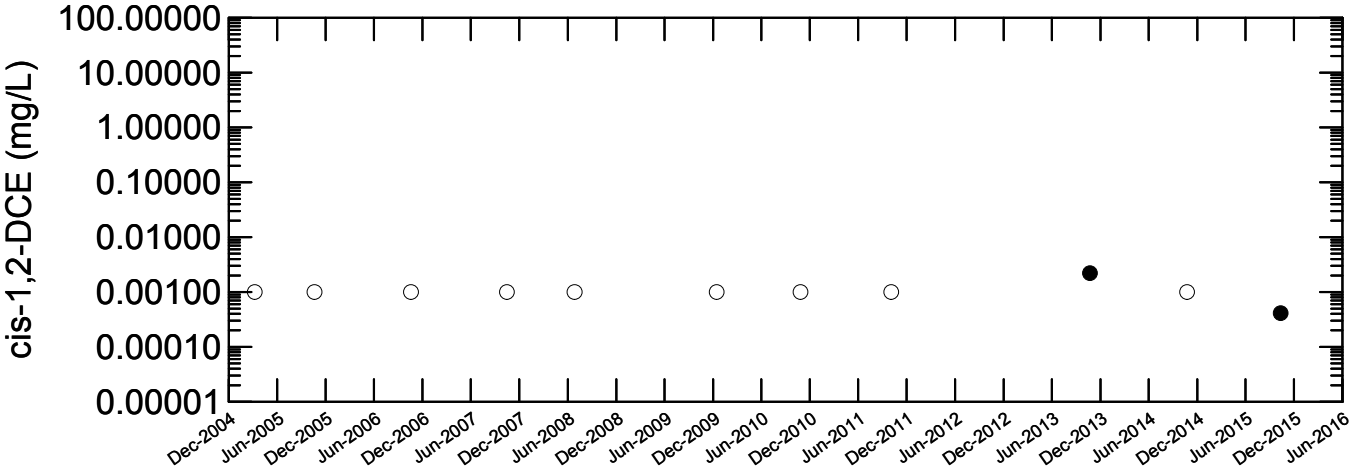
Note:

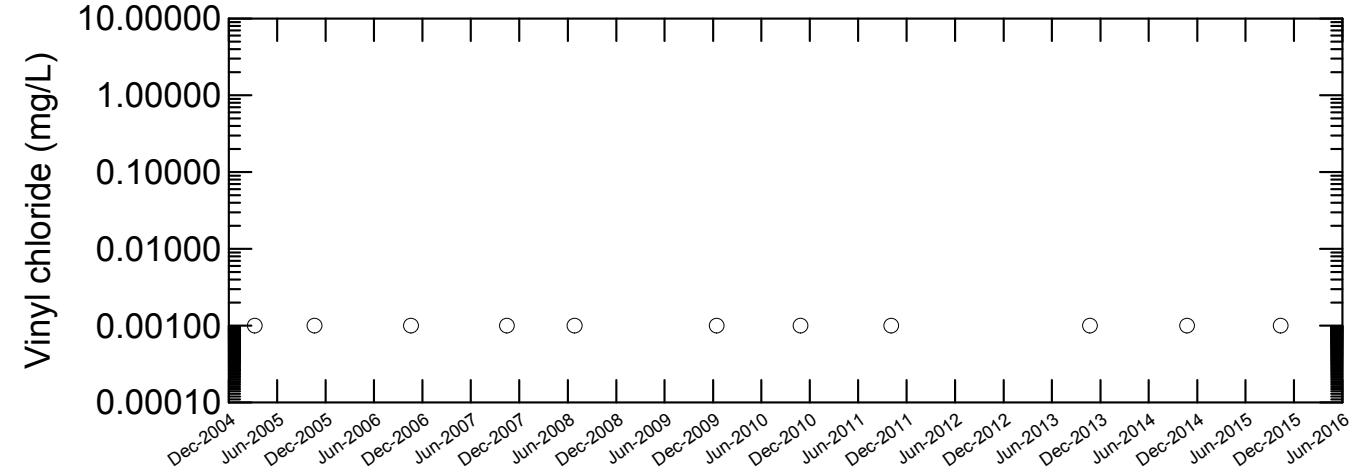
Non-detects are shown as the laboratory detection limit.

MW 81

Concentration vs. Time Graphs
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Legend:

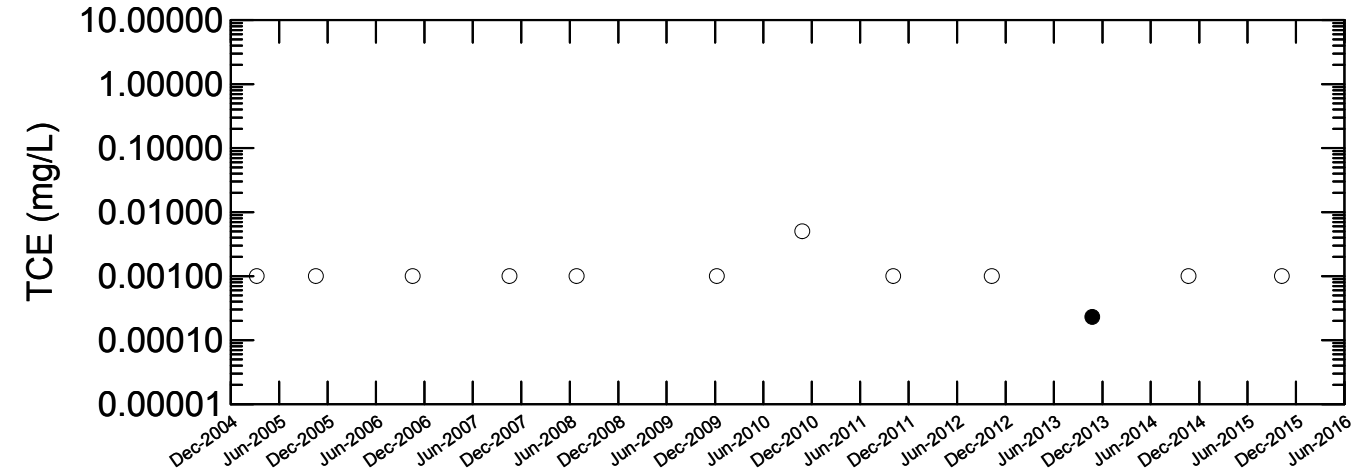
- ● Detected Result
- ○ Non-Detect Result

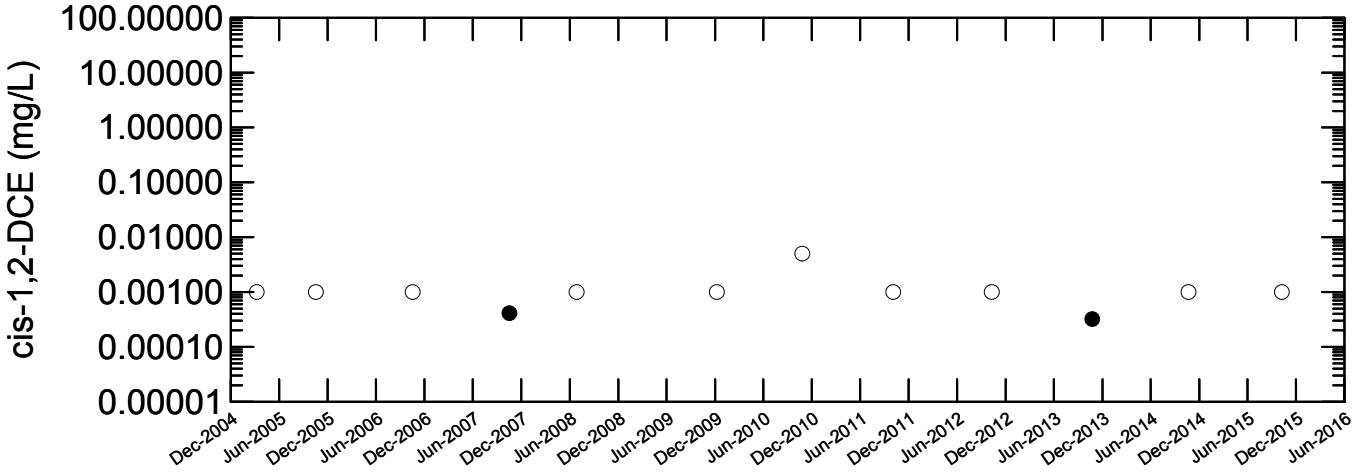
Note:

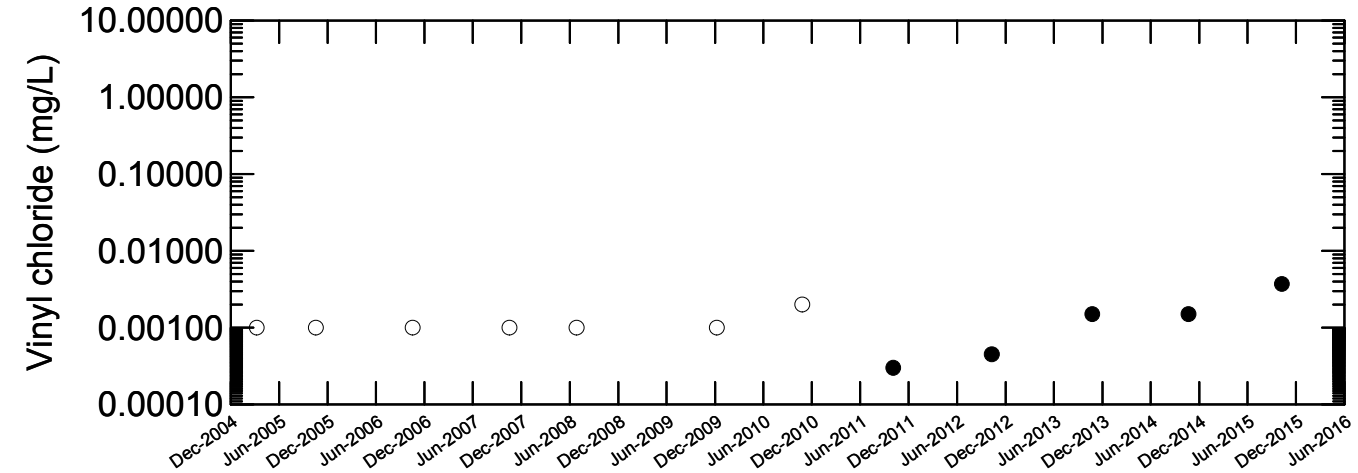
Non-detects are shown as the laboratory detection limit.

MW 82

Concentration vs. Time Graphs
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Anderson, Indiana







Legend:

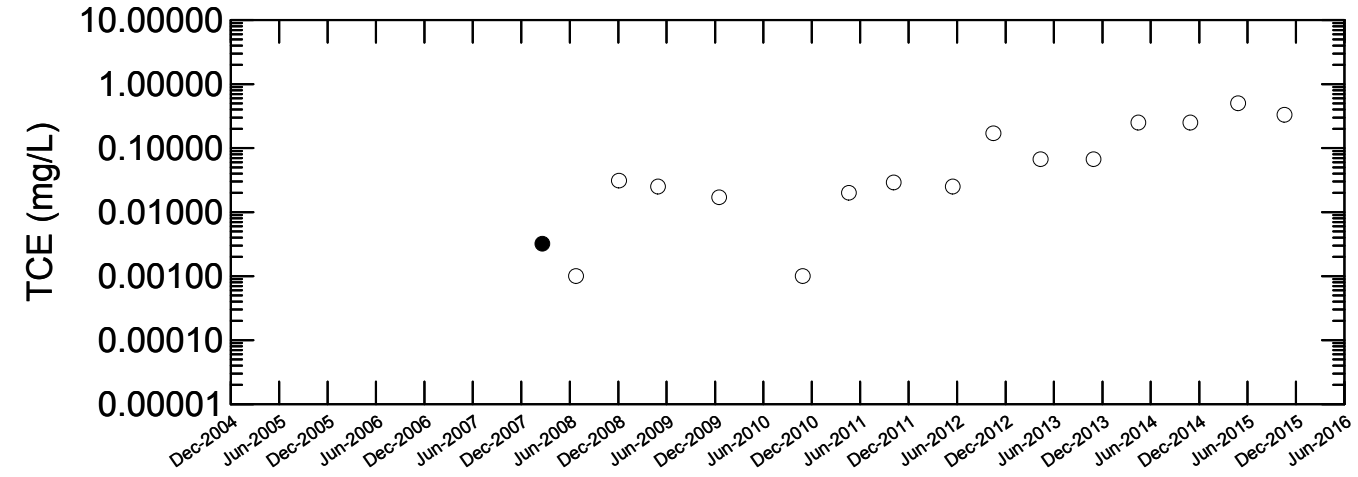
- ● Detected Result
- ○ Non-Detect Result

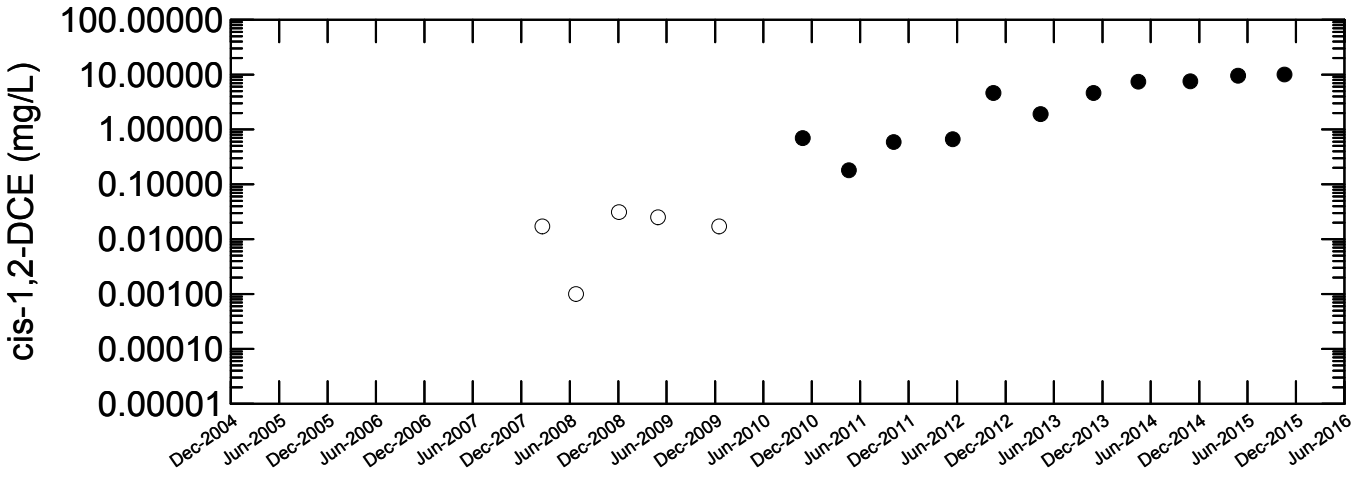
Note:

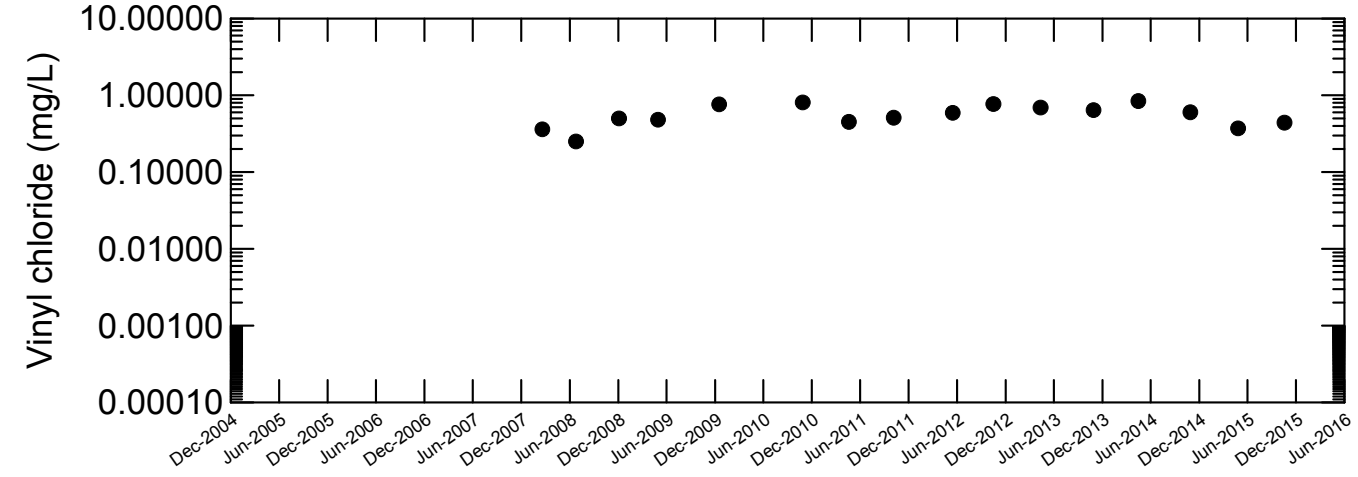
Non-detects are shown as the laboratory detection limit.

MW 83

Concentration vs. Time Graphs
2015 Annual Groundwater Monitoring Report
2915 Martin Luther King Jr. Boulevard
Anderson, Indiana







Legend:

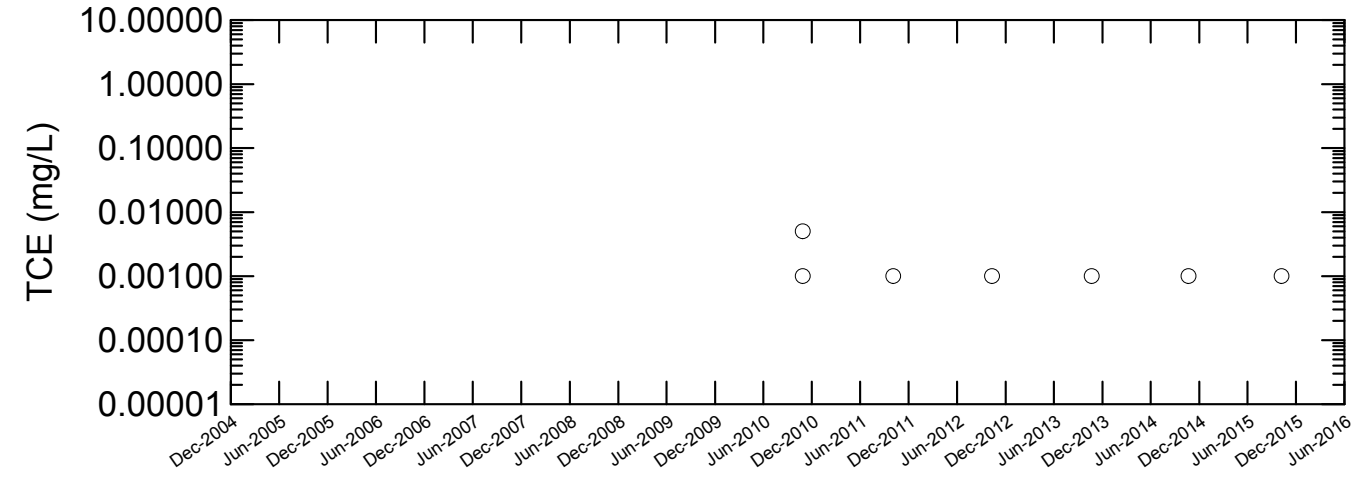
● Detected Result
○ Non-Detect Result

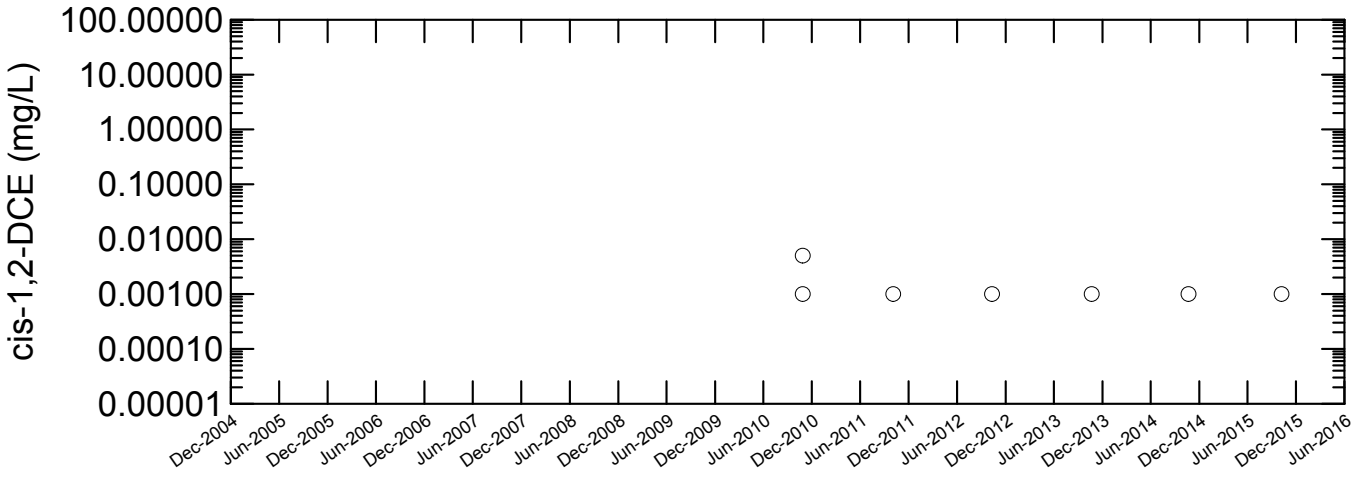
Note:

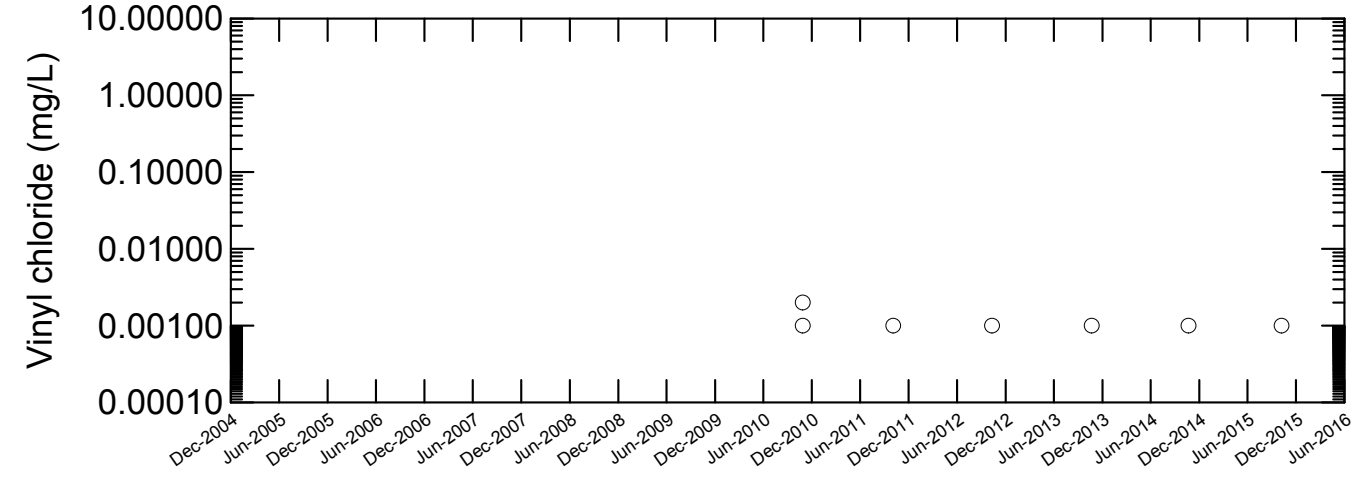
Non-detects are shown as the laboratory detection limit.

MW 85

Concentration vs. Time Graphs
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Legend:

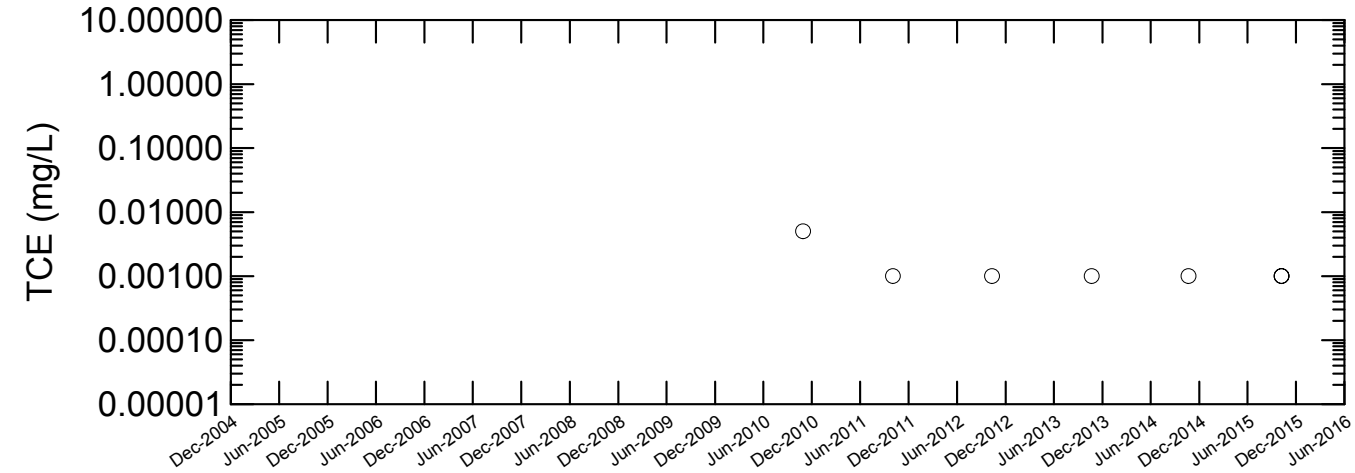
- ● Detected Result
- ○ Non-Detect Result

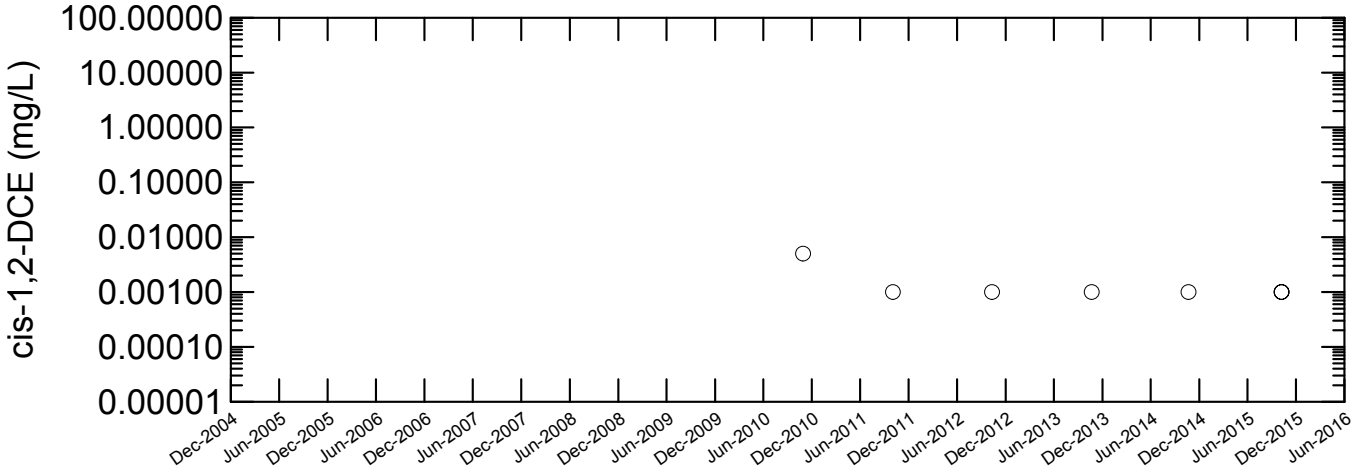
Note:

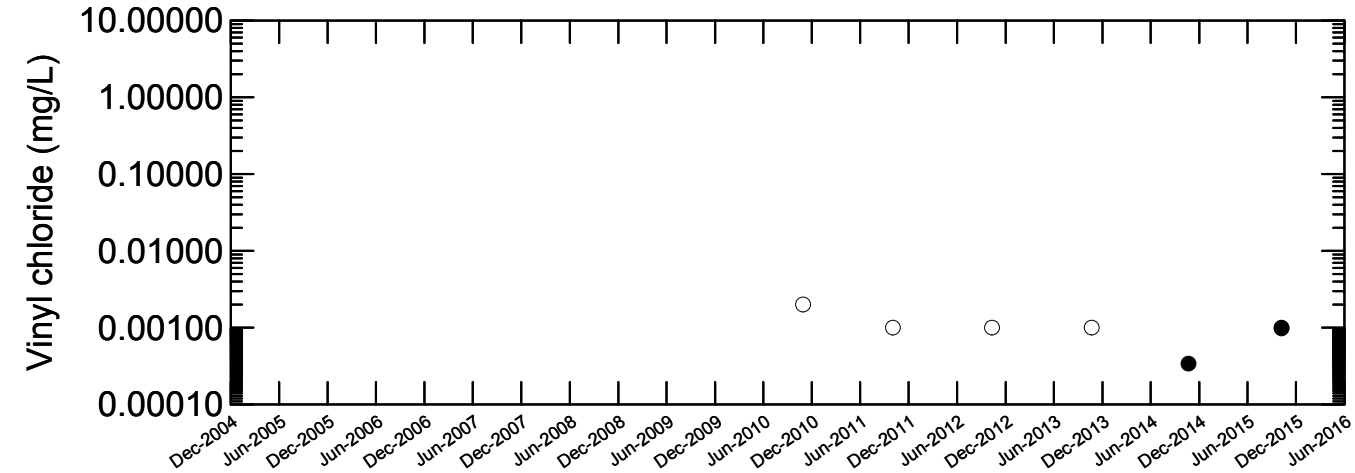
Non-detects are shown as the laboratory detection limit.

MW 86

Concentration vs. Time Graphs
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Legend:

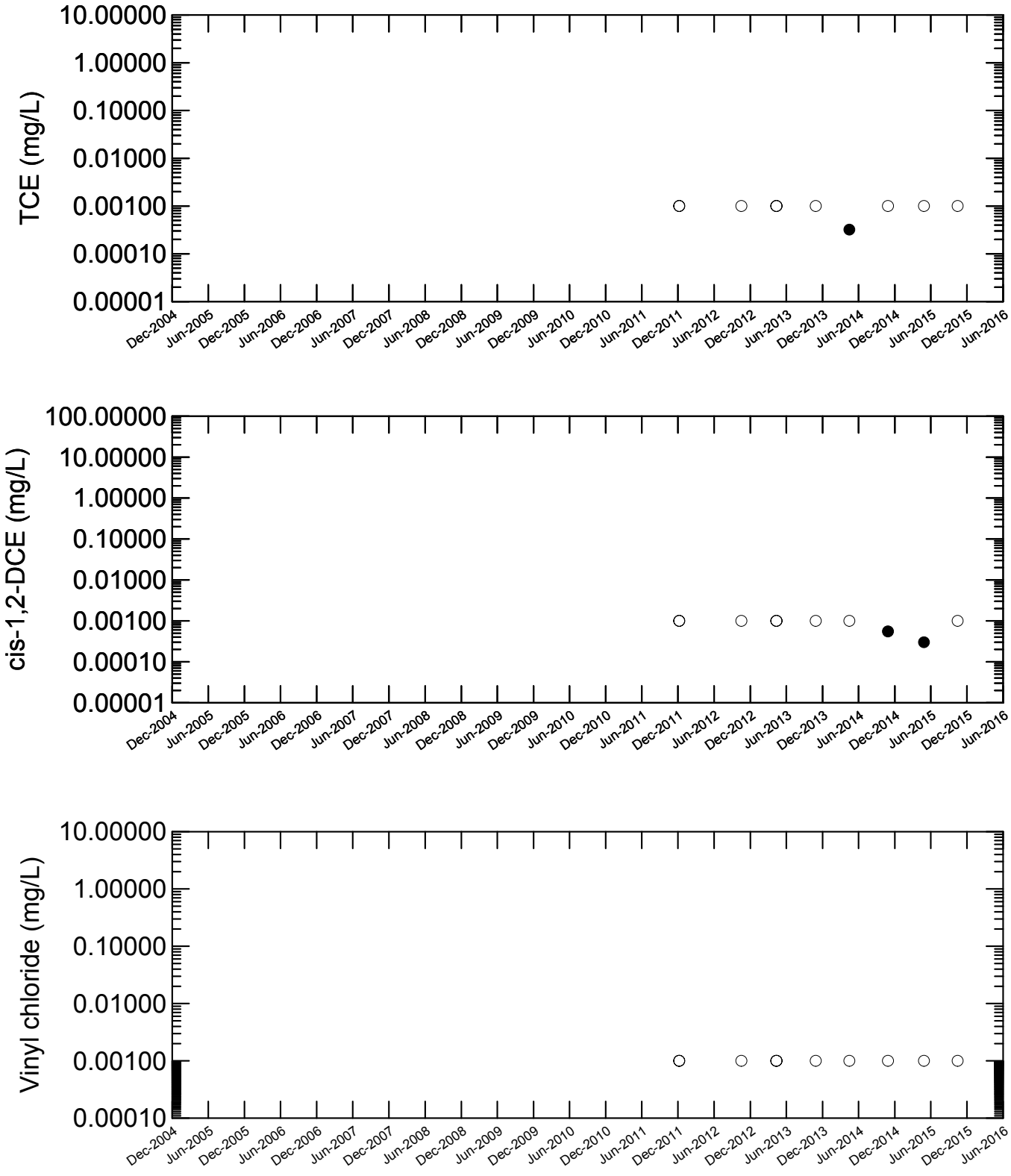
- ● Detected Result
- ○ Non-Detect Result

Note:

Non-detects are shown as the laboratory detection limit.

MW 88

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Legend:

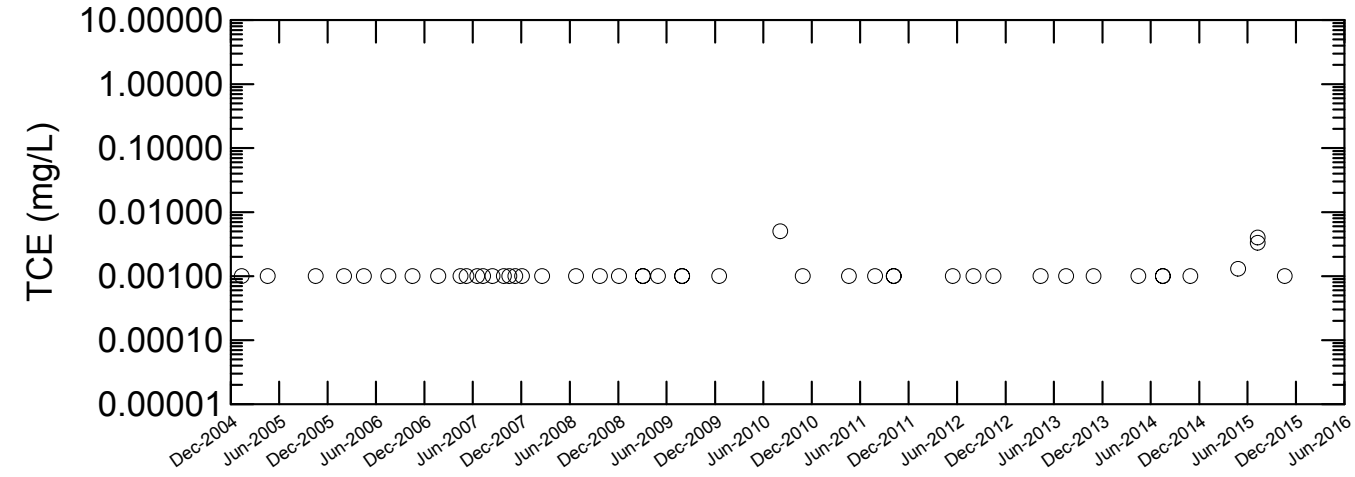
● Detected Result
○ Non-Detect Result

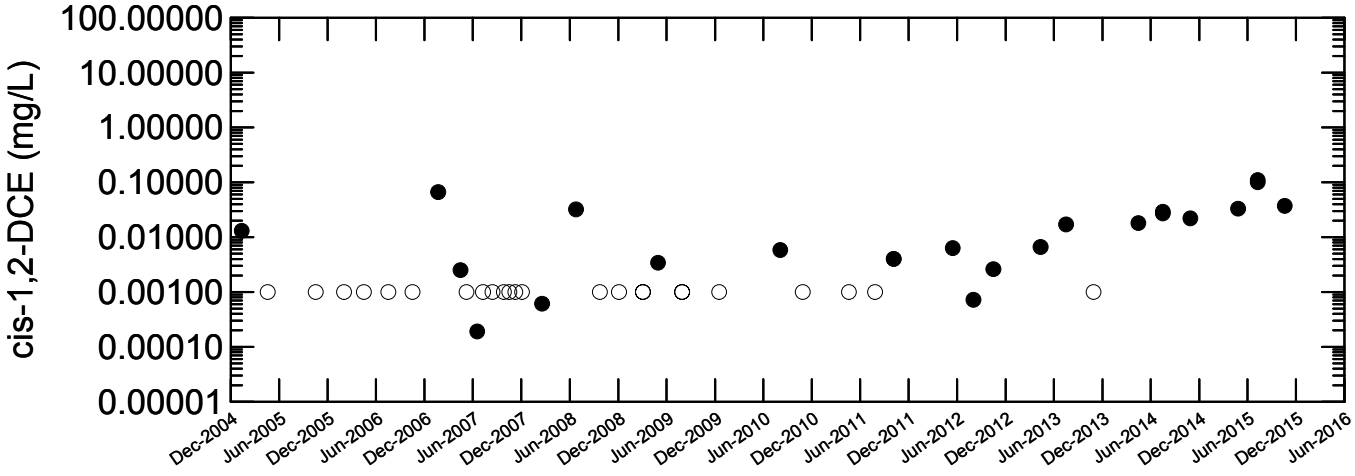
Note:

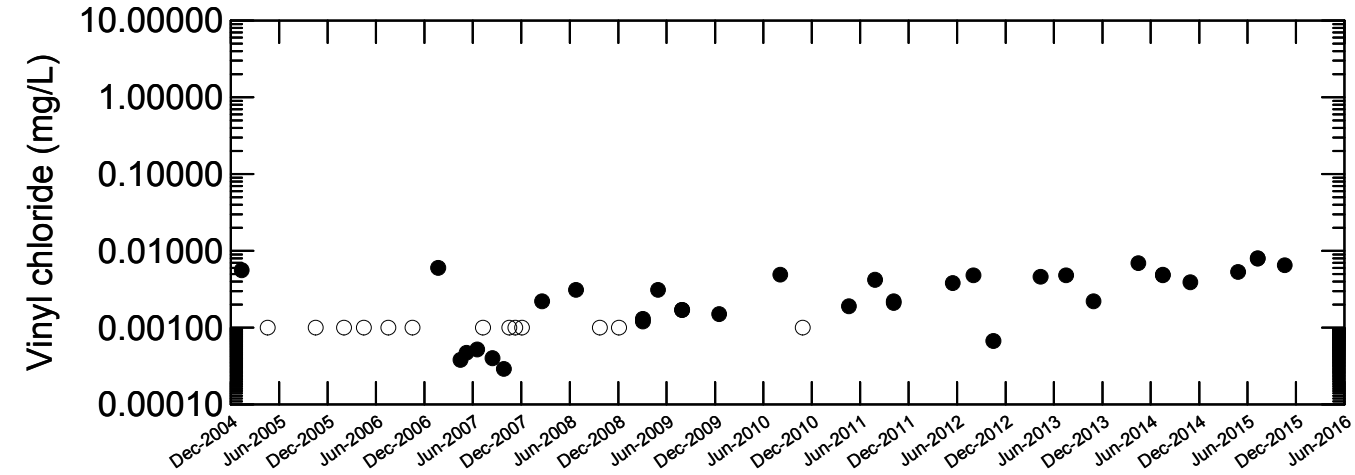
Non-detects are shown as the laboratory detection limit.

MW 89-11

Concentration vs. Time Graphs
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Legend:

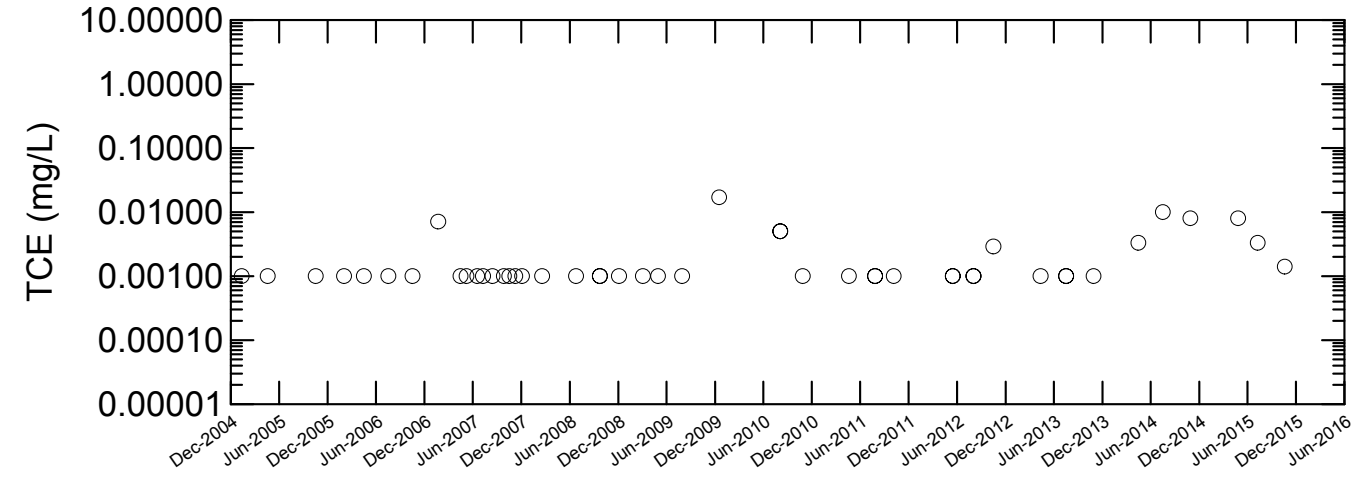
● Detected Result
○ Non-Detect Result

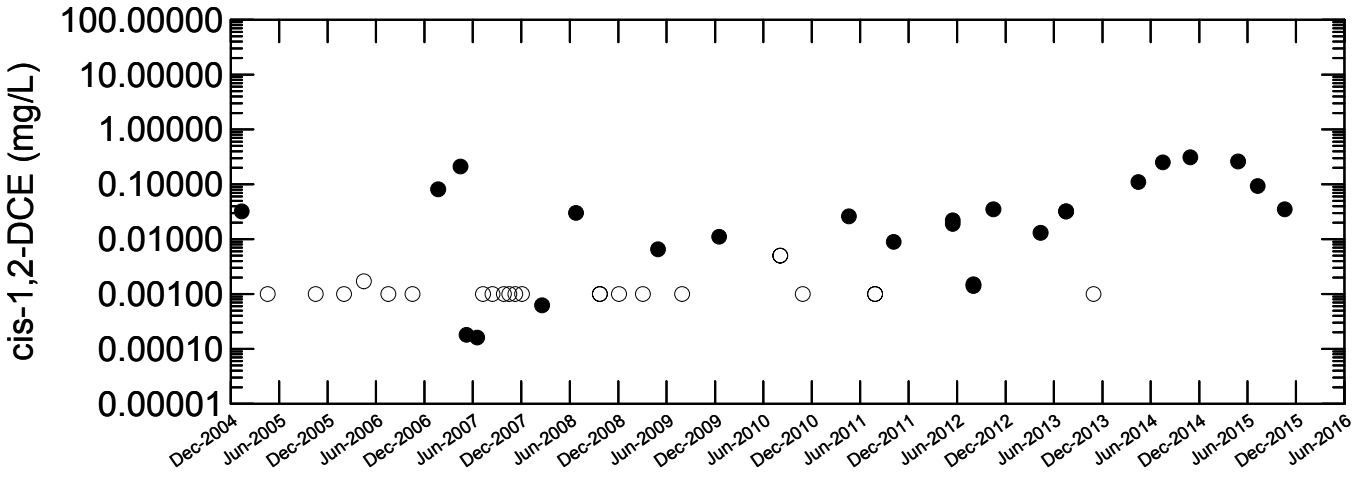
Note:

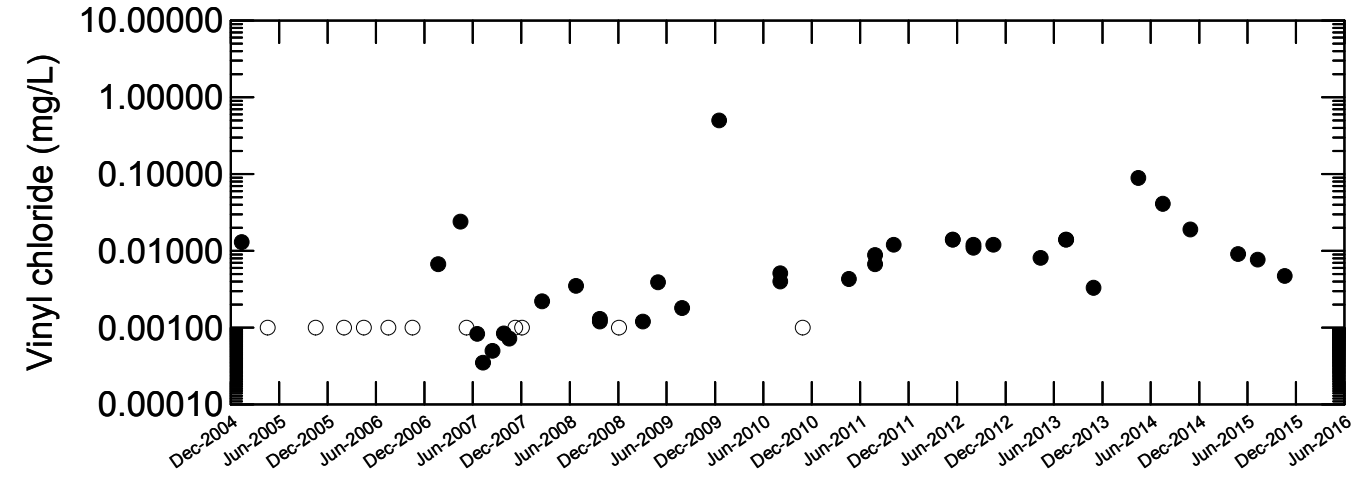
Non-detects are shown as the laboratory detection limit.

Pond Intake

Concentration vs. Time Graphs
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Legend:

- ● Detected Result
- ○ Non-Detect Result

Note:

Non-detects are shown as the laboratory detection limit.

Pond North

Concentration vs. Time Graphs

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Analyte	Location	Date	Unit	Result
Trichloroethene	MW-2	5/9/2007	mg/L	0.001 U
Trichloroethene	MW-2	7/10/2007	mg/L	0.001 U
Trichloroethene	MW-2	10/17/2007	mg/L	0.001 U
Trichloroethene	MW-2	6/25/2008	mg/L	0.001 U
Trichloroethene	MW-2	12/17/2009	mg/L	0.001 U
Trichloroethene	MW-2	10/28/2010	mg/L	0.001 U
Trichloroethene	MW-2	10/6/2011	mg/L	0.001 U
Trichloroethene	MW-2	10/16/2012	mg/L	0.001 U
Trichloroethene	MW-2	10/29/2013	mg/L	0.001 U
Trichloroethene	MW-2	10/29/2013	mg/L	0.001 U
Trichloroethene	MW-2	10/29/2014	mg/L	0.001 U
Trichloroethene	MW-2	10/19/2015	mg/L	0.001 U
Trichloroethene	MW 3	2/1/2005	mg/L	15
Trichloroethene	MW 3	2/1/2005	mg/L	15
Trichloroethene	MW 3	10/18/2005	mg/L	0.013
Trichloroethene	MW 3	1/31/2006	mg/L	7.9
Trichloroethene	MW 3	4/18/2006	mg/L	12
Trichloroethene	MW 3	4/18/2006	mg/L	11
Trichloroethene	MW 3	7/19/2006	mg/L	9.5
Trichloroethene	MW 3	7/19/2006	mg/L	10
Trichloroethene	MW 3	10/16/2006	mg/L	11 J
Trichloroethene	MW 3	1/24/2007	mg/L	10 J
Trichloroethene	MW 3	4/17/2007	mg/L	6.2
Trichloroethene	MW 3	4/17/2007	mg/L	5.9
Trichloroethene	MW 3	7/11/2007	mg/L	11
Trichloroethene	MW 3	10/16/2007	mg/L	11
Trichloroethene	MW 3	2/18/2008	mg/L	15
Trichloroethene	MW 3	6/30/2008	mg/L	18
Trichloroethene	MW 3	6/30/2008	mg/L	18
Trichloroethene	MW 3	12/4/2008	mg/L	9.2
Trichloroethene	MW 3	4/30/2009	mg/L	18
Trichloroethene	MW 3	12/15/2009	mg/L	8.3
Trichloroethene	MW 3	12/15/2009	mg/L	8
Trichloroethene	MW 3	10/28/2010	mg/L	6.79
Trichloroethene	MW 3	10/28/2010	mg/L	5.83
Trichloroethene	MW 3	4/18/2011	mg/L	14
Trichloroethene	MW 3	10/5/2011	mg/L	10
Trichloroethene	MW 3	5/16/2012	mg/L	12 J
Trichloroethene	MW 3	10/15/2012	mg/L	4
Trichloroethene	MW 3	4/9/2013	mg/L	13
Trichloroethene	MW 3	10/24/2013	mg/L	4.8
Trichloroethene	MW 3	10/24/2013	mg/L	5.3
Trichloroethene	MW 3	4/15/2014	mg/L	8.6
Trichloroethene	MW 3	10/23/2014	mg/L	4.3
Trichloroethene	MW 3	4/28/2015	mg/L	8.3
Trichloroethene	MW 3	10/14/2015	mg/L	5.1
Trichloroethene	MW-4	1/11/2005	mg/L	0.05
Trichloroethene	MW-4	10/19/2005	mg/L	0.83 U
Trichloroethene	MW-4	2/1/2006	mg/L	0.001 U

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Analyte	Location	Date	Unit	Result
Trichloroethene	MW-4	4/18/2006	mg/L	0.25 U
Trichloroethene	MW-4	7/18/2006	mg/L	0.42 U
Trichloroethene	MW-4	10/17/2006	mg/L	0.18 J
Trichloroethene	MW-4	1/24/2007	mg/L	0.5 UJ
Trichloroethene	MW-4	4/16/2007	mg/L	0.05 UJ
Trichloroethene	MW-4	7/10/2007	mg/L	1 U
Trichloroethene	MW-4	7/10/2007	mg/L	0.13 U
Trichloroethene	MW-4	10/17/2007	mg/L	0.56 U
Trichloroethene	MW-4	10/17/2007	mg/L	0.5 U
Trichloroethene	MW-4	2/18/2008	mg/L	1 U
Trichloroethene	MW-4	6/25/2008	mg/L	1 U
Trichloroethene	MW-4	6/25/2008	mg/L	0.63 U
Trichloroethene	MW-4	12/3/2008	mg/L	1 U
Trichloroethene	MW-4	4/30/2009	mg/L	0.5 U
Trichloroethene	MW-4	4/30/2009	mg/L	0.42 U
Trichloroethene	MW-4	12/16/2009	mg/L	0.069 J
Trichloroethene	MW-4	12/16/2009	mg/L	0.36 J
Trichloroethene	MW-4	10/28/2010	mg/L	0.0112
Trichloroethene	MW-4	4/20/2011	mg/L	0.25 U
Trichloroethene	MW-4	4/20/2011	mg/L	0.33 U
Trichloroethene	MW-4	10/6/2011	mg/L	0.092 J
Trichloroethene	MW-4	5/16/2012	mg/L	0.25 J
Trichloroethene	MW-4	10/16/2012	mg/L	0.99
Trichloroethene	MW-4	4/12/2013	mg/L	0.74
Trichloroethene	MW-4	10/29/2013	mg/L	1.5
Trichloroethene	MW-4	4/16/2014	mg/L	0.47 J / 0.52
Trichloroethene	MW-4	10/29/2014	mg/L	1.7
Trichloroethene	MW-4	4/27/2015	mg/L	0.5
Trichloroethene	MW-4	10/19/2015	mg/L	1
Trichloroethene	MW 8	2/2/2005	mg/L	0.35
Trichloroethene	MW 8	10/17/2005	mg/L	0.14 J
Trichloroethene	MW 8	10/17/2005	mg/L	0.13 J
Trichloroethene	MW 8	2/1/2006	mg/L	0.8 J
Trichloroethene	MW 8	4/17/2006	mg/L	0.4 J
Trichloroethene	MW 8	7/18/2006	mg/L	0.15 J
Trichloroethene	MW 8	10/16/2006	mg/L	0.86
Trichloroethene	MW 8	1/23/2007	mg/L	0.4 J
Trichloroethene	MW 8	4/16/2007	mg/L	0.51 J
Trichloroethene	MW 8	7/10/2007	mg/L	0.84
Trichloroethene	MW 8	10/15/2007	mg/L	1.4
Trichloroethene	MW 8	6/27/2008	mg/L	0.58 J
Trichloroethene	MW 8	12/15/2009	mg/L	0.046
Trichloroethene	MW 8	10/27/2010	mg/L	0.248
Trichloroethene	MW 8	4/18/2011	mg/L	0.33
Trichloroethene	MW 8	10/5/2011	mg/L	0.34
Trichloroethene	MW 8	5/15/2012	mg/L	0.085 J
Trichloroethene	MW 8	5/15/2012	mg/L	0.071 J
Trichloroethene	MW 8	10/15/2012	mg/L	0.44
Trichloroethene	MW 8	4/9/2013	mg/L	0.12 J

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Analyte	Location	Date	Unit	Result
Trichloroethene	MW 8	10/24/2013	mg/L	0.42
Trichloroethene	MW 8	4/15/2014	mg/L	0.19 J
Trichloroethene	MW 8	10/23/2014	mg/L	0.31
Trichloroethene	MW 8	4/28/2015	mg/L	0.33
Trichloroethene	MW 8	10/14/2015	mg/L	0.42
Trichloroethene	MW 12	2/2/2005	mg/L	0.16
Trichloroethene	MW 12	10/19/2005	mg/L	0.11 / 0.13
Trichloroethene	MW 12	1/31/2006	mg/L	0.15
Trichloroethene	MW 12	4/18/2006	mg/L	0.065
Trichloroethene	MW 12	7/18/2006	mg/L	0.041 / 0.041
Trichloroethene	MW 12	10/19/2006	mg/L	0.09 J
Trichloroethene	MW 12	1/22/2007	mg/L	0.038
Trichloroethene	MW 12	4/18/2007	mg/L	0.063 U
Trichloroethene	MW 12	7/11/2007	mg/L	0.063
Trichloroethene	MW 12	10/19/2007	mg/L	0.061
Trichloroethene	MW 12	6/27/2008	mg/L	0.039
Trichloroethene	MW 12	12/5/2008	mg/L	0.036
Trichloroethene	MW 12	4/29/2009	mg/L	0.028
Trichloroethene	MW 12	12/9/2009	mg/L	0.024
Trichloroethene	MW 12	10/26/2010	mg/L	0.0099
Trichloroethene	MW 12	4/20/2011	mg/L	0.0098 J
Trichloroethene	MW 12	10/5/2011	mg/L	0.0073 J
Trichloroethene	MW 12	5/15/2012	mg/L	0.0058 J
Trichloroethene	MW 12	10/11/2012	mg/L	0.004 J
Trichloroethene	MW 12	4/9/2013	mg/L	0.0059 J
Trichloroethene	MW 12	10/23/2013	mg/L	0.003 J
Trichloroethene	MW 12	4/11/2014	mg/L	0.0017 J
Trichloroethene	MW 12	10/24/2014	mg/L	0.0012 J / 0.0013 J
Trichloroethene	MW 12	4/27/2015	mg/L	0.0057 U
Trichloroethene	MW 12	10/9/2015	mg/L	0.005 U
Trichloroethene	MW 14	2/2/2005	mg/L	0.05 U
Trichloroethene	MW 14	10/17/2005	mg/L	0.001 U
Trichloroethene	MW 14	2/1/2006	mg/L	0.5 U
Trichloroethene	MW 14	4/18/2006	mg/L	0.25 U
Trichloroethene	MW 14	7/19/2006	mg/L	0.25 U
Trichloroethene	MW 14	10/18/2006	mg/L	0.36 U
Trichloroethene	MW 14	1/24/2007	mg/L	0.25 UJ
Trichloroethene	MW 14	4/17/2007	mg/L	0.028 UJ
Trichloroethene	MW 14	7/9/2007	mg/L	0.33 U
Trichloroethene	MW 14	10/16/2007	mg/L	0.42 U
Trichloroethene	MW 14	6/30/2008	mg/L	0.001
Trichloroethene	MW 14	12/5/2008	mg/L	0.5 U
Trichloroethene	MW 14	4/29/2009	mg/L	0.25 U
Trichloroethene	MW 14	12/15/2009	mg/L	0.0054 J
Trichloroethene	MW 14	10/27/2010	mg/L	0.01 U
Trichloroethene	MW 14	4/18/2011	mg/L	0.17 U
Trichloroethene	MW 14	10/5/2011	mg/L	0.2 U
Trichloroethene	MW 14	5/15/2012	mg/L	0.17 U
Trichloroethene	MW 14	10/15/2012	mg/L	0.2 U

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Analyte	Location	Date	Unit	Result
Trichloroethene	MW 14	4/9/2013	mg/L	0.17 U
Trichloroethene	MW 14	4/9/2013	mg/L	0.17 U
Trichloroethene	MW 14	10/25/2013	mg/L	0.25 U
Trichloroethene	MW 14	10/25/2013	mg/L	0.2 U
Trichloroethene	MW 14	4/15/2014	mg/L	0.17 U / 0.17 U
Trichloroethene	MW 14	10/24/2014	mg/L	0.33 U
Trichloroethene	MW 14	4/29/2015	mg/L	0.2 U / 0.2 U
Trichloroethene	MW 14	10/12/2015	mg/L	0.2 U
Trichloroethene	MW 28	10/18/2005	mg/L	0.0063 U
Trichloroethene	MW 28	10/19/2006	mg/L	0.00015 J
Trichloroethene	MW 28	10/18/2007	mg/L	0.0071 U
Trichloroethene	MW 28	6/24/2008	mg/L	0.0042 U
Trichloroethene	MW 28	12/4/2008	mg/L	0.005 U
Trichloroethene	MW 28	4/29/2009	mg/L	0.005 U
Trichloroethene	MW 28	12/4/2009	mg/L	0.0063 U
Trichloroethene	MW 28	10/26/2010	mg/L	0.005 U
Trichloroethene	MW 28	4/19/2011	mg/L	0.002 U
Trichloroethene	MW 28	10/3/2011	mg/L	0.0033 U
Trichloroethene	MW 28	5/14/2012	mg/L	0.0033 U
Trichloroethene	MW 28	10/10/2012	mg/L	0.004 U
Trichloroethene	MW 28	4/10/2013	mg/L	0.0067 U
Trichloroethene	MW 28	10/23/2013	mg/L	0.0091 U
Trichloroethene	MW 28	4/15/2014	mg/L	0.014 U / 0.014 U
Trichloroethene	MW 28	10/27/2014	mg/L	0.02 U
Trichloroethene	MW 28	4/29/2015	mg/L	0.025 U
Trichloroethene	MW 28	10/12/2015	mg/L	0.04 U
Trichloroethene	MW 31R	10/18/2005	mg/L	2.1 J
Trichloroethene	MW 31R	1/31/2006	mg/L	2.5
Trichloroethene	MW 31R	4/19/2006	mg/L	1.4
Trichloroethene	MW 31R	7/19/2006	mg/L	0.18 J
Trichloroethene	MW 31R	10/17/2006	mg/L	0.12 J
Trichloroethene	MW 31R	10/17/2006	mg/L	0.13 J
Trichloroethene	MW 31R	1/23/2007	mg/L	0.97 J
Trichloroethene	MW 31R	1/23/2007	mg/L	0.87 J
Trichloroethene	MW 31R	4/17/2007	mg/L	0.93 J
Trichloroethene	MW 31R	7/11/2007	mg/L	1 U
Trichloroethene	MW 31R	10/17/2007	mg/L	0.1 U
Trichloroethene	MW 31R	2/14/2008	mg/L	0.74 J
Trichloroethene	MW 31R	2/14/2008	mg/L	0.67 J
Trichloroethene	MW 31R	12/4/2008	mg/L	0.83 U
Trichloroethene	MW 31R	4/29/2009	mg/L	0.54
Trichloroethene	MW 31R	12/15/2009	mg/L	2.3
Trichloroethene	MW 31R	10/28/2010	mg/L	0.0416
Trichloroethene	MW 31R	4/18/2011	mg/L	0.34
Trichloroethene	MW 31R	10/4/2011	mg/L	0.32
Trichloroethene	MW 31R	5/15/2012	mg/L	0.25 U
Trichloroethene	MW 31R	10/15/2012	mg/L	0.078 J
Trichloroethene	MW 31R	4/9/2013	mg/L	0.057 J
Trichloroethene	MW 31R	10/24/2013	mg/L	0.15 J

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Analyte	Location	Date	Unit	Result
Trichloroethene	MW 31R	4/15/2014	mg/L	0.12 J
Trichloroethene	MW 31R	10/27/2014	mg/L	0.04 J
Trichloroethene	MW 31R	4/28/2015	mg/L	0.5 U
Trichloroethene	MW 31R	10/14/2015	mg/L	0.25 U
Trichloroethene	MW 37	1/18/2005	mg/L	0.001 U
Trichloroethene	MW 37	1/18/2005	mg/L	0.001 U
Trichloroethene	MW 37	10/17/2007	mg/L	0.001 U
Trichloroethene	MW 37	6/26/2008	mg/L	0.001 U
Trichloroethene	MW 37	12/16/2009	mg/L	0.001 U
Trichloroethene	MW 37	10/27/2010	mg/L	0.001 U
Trichloroethene	MW 37	10/5/2011	mg/L	0.001 U
Trichloroethene	MW 37	10/17/2012	mg/L	0.001 U
Trichloroethene	MW 37	10/17/2012	mg/L	0.001 U
Trichloroethene	MW 37	10/25/2013	mg/L	0.001 U
Trichloroethene	MW 37	10/22/2014	mg/L	0.001 U
Trichloroethene	MW 37	10/9/2015	mg/L	0.001 U
Trichloroethene	MW 40	1/12/2005	mg/L	0.1 U
Trichloroethene	MW 40	10/18/2005	mg/L	0.0013 U
Trichloroethene	MW 40	1/30/2006	mg/L	0.5 U
Trichloroethene	MW 40	4/17/2006	mg/L	0.63 U
Trichloroethene	MW 40	7/19/2006	mg/L	0.63 U
Trichloroethene	MW 40	10/18/2006	mg/L	0.0011
Trichloroethene	MW 40	1/23/2007	mg/L	0.5 UJ
Trichloroethene	MW 40	4/18/2007	mg/L	0.042 UJ
Trichloroethene	MW 40	7/10/2007	mg/L	0.83 U
Trichloroethene	MW 40	10/18/2007	mg/L	0.5 U
Trichloroethene	MW 40	2/15/2008	mg/L	0.63 U
Trichloroethene	MW 40	6/26/2008	mg/L	0.14 J
Trichloroethene	MW 40	12/3/2008	mg/L	0.71 U
Trichloroethene	MW 40	12/3/2008	mg/L	0.83 U
Trichloroethene	MW 40	4/30/2009	mg/L	0.5 U
Trichloroethene	MW 40	12/9/2009	mg/L	0.25 U
Trichloroethene	MW 40	10/26/2010	mg/L	0.125 U
Trichloroethene	MW 40	4/19/2011	mg/L	0.25 U
Trichloroethene	MW 40	10/4/2011	mg/L	0.25 U
Trichloroethene	MW 40	5/14/2012	mg/L	0.13 J
Trichloroethene	MW 40	10/10/2012	mg/L	0.073 J
Trichloroethene	MW 40	4/9/2013	mg/L	0.13 J
Trichloroethene	MW 40	10/24/2013	mg/L	0.15 J
Trichloroethene	MW 40	4/14/2014	mg/L	0.22 J
Trichloroethene	MW 40	10/27/2014	mg/L	0.21 J
Trichloroethene	MW 40	4/28/2015	mg/L	0.32 J
Trichloroethene	MW 40	10/13/2015	mg/L	0.26
Trichloroethene	MW 41	10/17/2005	mg/L	0.28 U
Trichloroethene	MW 41	1/30/2006	mg/L	0.5 U
Trichloroethene	MW 41	4/17/2006	mg/L	0.00017 J
Trichloroethene	MW 41	4/17/2006	mg/L	0.00015 J
Trichloroethene	MW 41	7/18/2006	mg/L	0.31 U
Trichloroethene	MW 41	10/18/2006	mg/L	0.5 U

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Analyte	Location	Date	Unit	Result
Trichloroethene	MW 41	1/23/2007	mg/L	0.5 UJ
Trichloroethene	MW 41	4/18/2007	mg/L	0.031 UJ
Trichloroethene	MW 41	4/18/2007	mg/L	0.013 U
Trichloroethene	MW 41	7/10/2007	mg/L	0.63 U
Trichloroethene	MW 41	10/18/2007	mg/L	0.5 U
Trichloroethene	MW 41	2/15/2008	mg/L	0.42 U
Trichloroethene	MW 41	6/24/2008	mg/L	0.5 U
Trichloroethene	MW 41	12/3/2008	mg/L	0.5 U
Trichloroethene	MW 41	4/28/2009	mg/L	0.5 U
Trichloroethene	MW 41	12/3/2009	mg/L	0.25 U
Trichloroethene	MW 41	10/25/2010	mg/L	0.125 U
Trichloroethene	MW 41	4/19/2011	mg/L	0.17 U
Trichloroethene	MW 41	10/4/2011	mg/L	0.2 U
Trichloroethene	MW 41	5/14/2012	mg/L	0.2 U
Trichloroethene	MW 41	10/10/2012	mg/L	0.2 U
Trichloroethene	MW 41	4/9/2013	mg/L	0.2 U
Trichloroethene	MW 41	10/25/2013	mg/L	0.33 U
Trichloroethene	MW 41	4/14/2014	mg/L	0.2 U
Trichloroethene	MW 41	10/23/2014	mg/L	0.63 U
Trichloroethene	MW 41	4/29/2015	mg/L	0.33 U
Trichloroethene	MW 41	10/12/2015	mg/L	0.33 U / 0.25 U
Trichloroethene	MW 42	10/18/2005	mg/L	0.001 U
Trichloroethene	MW 42	1/30/2006	mg/L	0.5 U
Trichloroethene	MW 42	1/30/2006	mg/L	0.5 U
Trichloroethene	MW 42	4/17/2006	mg/L	0.00011 J
Trichloroethene	MW 42	7/18/2006	mg/L	0.31 U
Trichloroethene	MW 42	10/18/2006	mg/L	0.42 U
Trichloroethene	MW 42	1/23/2007	mg/L	0.5 UJ
Trichloroethene	MW 42	1/23/2007	mg/L	0.5 UJ
Trichloroethene	MW 42	4/18/2007	mg/L	0.031 UJ
Trichloroethene	MW 42	7/10/2007	mg/L	0.71 U
Trichloroethene	MW 42	10/18/2007	mg/L	0.5 U
Trichloroethene	MW 42	2/15/2008	mg/L	0.42 U
Trichloroethene	MW 42	6/24/2008	mg/L	0.5 U
Trichloroethene	MW 42	12/3/2008	mg/L	0.5 U
Trichloroethene	MW 42	4/28/2009	mg/L	0.5 U
Trichloroethene	MW 42	12/3/2009	mg/L	0.25 U
Trichloroethene	MW 42	10/25/2010	mg/L	0.125 U
Trichloroethene	MW 42	4/19/2011	mg/L	0.17 U
Trichloroethene	MW 42	10/4/2011	mg/L	0.2 U
Trichloroethene	MW 42	5/14/2012	mg/L	0.25 U
Trichloroethene	MW 42	10/10/2012	mg/L	0.17 U
Trichloroethene	MW 42	4/9/2013	mg/L	0.2 U
Trichloroethene	MW 42	10/25/2013	mg/L	0.2 U
Trichloroethene	MW 42	4/14/2014	mg/L	0.17 U
Trichloroethene	MW 42	10/23/2014	mg/L	0.2 U
Trichloroethene	MW 42	4/29/2015	mg/L	0.2 U
Trichloroethene	MW 42	10/12/2015	mg/L	0.17 U
Trichloroethene	MW 46	1/12/2005	mg/L	0.001 U

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Trichloroethene	MW 46	10/19/2007	mg/L	0.00012 J
Trichloroethene	MW 46	10/19/2007	mg/L	0.00013 J
Trichloroethene	MW 46	6/27/2008	mg/L	0.001 U
Trichloroethene	MW 46	12/16/2009	mg/L	0.00018 J
Trichloroethene	MW 46	10/26/2010	mg/L	0.005 U
Trichloroethene	MW 46	10/5/2011	mg/L	0.001 U
Trichloroethene	MW 46	10/17/2012	mg/L	0.001 U
Trichloroethene	MW 46	10/25/2013	mg/L	0.001 U
Trichloroethene	MW 46	10/22/2014	mg/L	0.001 U
Trichloroethene	MW 46	10/9/2015	mg/L	0.001 U
Trichloroethene	MW 49	1/12/2005	mg/L	0.001 U
Trichloroethene	MW 49	10/19/2007	mg/L	0.00042 J
Trichloroethene	MW 49	2/15/2008	mg/L	0.0025 U
Trichloroethene	MW 49	6/30/2008	mg/L	0.00041 J
Trichloroethene	MW 49	12/5/2008	mg/L	0.00084 J
Trichloroethene	MW 49	4/29/2009	mg/L	0.0013 J
Trichloroethene	MW 49	12/4/2009	mg/L	0.0007 J
Trichloroethene	MW 49	10/27/2010	mg/L	0.001 U
Trichloroethene	MW 49	4/19/2011	mg/L	0.017 U
Trichloroethene	MW 49	10/5/2011	mg/L	0.025 U
Trichloroethene	MW 49	5/15/2012	mg/L	0.025 U
Trichloroethene	MW 49	10/17/2012	mg/L	0.033 U
Trichloroethene	MW 49	4/10/2013	mg/L	0.033 U
Trichloroethene	MW 49	10/25/2013	mg/L	0.033 U
Trichloroethene	MW 49	4/14/2014	mg/L	0.00085 J
Trichloroethene	MW 49	10/27/2014	mg/L	0.033 U
Trichloroethene	MW 49	4/28/2015	mg/L	0.033 U
Trichloroethene	MW 49	10/13/2015	mg/L	0.04 U
Trichloroethene	MW 51	12/5/2008	mg/L	0.28
Trichloroethene	MW 51	12/5/2008	mg/L	0.29
Trichloroethene	MW 51	4/29/2009	mg/L	0.19
Trichloroethene	MW 51	12/14/2009	mg/L	0.3
Trichloroethene	MW 51	10/27/2010	mg/L	0.24 J
Trichloroethene	MW 51	4/20/2011	mg/L	0.18
Trichloroethene	MW 51	10/5/2011	mg/L	0.21
Trichloroethene	MW 51	5/14/2012	mg/L	0.18
Trichloroethene	MW 51	10/12/2012	mg/L	0.2
Trichloroethene	MW 51	4/9/2013	mg/L	0.21
Trichloroethene	MW 51	10/23/2013	mg/L	0.19
Trichloroethene	MW 51	4/16/2014	mg/L	0.16
Trichloroethene	MW 51	10/21/2014	mg/L	0.18
Trichloroethene	MW 51	4/28/2015	mg/L	0.14 / 0.16
Trichloroethene	MW 51	10/9/2015	mg/L	0.16
Trichloroethene	MW 56	1/11/2005	mg/L	0.001 U
Trichloroethene	MW 56	10/19/2005	mg/L	0.001 U
Trichloroethene	MW 56	10/18/2006	mg/L	0.00067 J
Trichloroethene	MW 56	10/18/2007	mg/L	0.001 U
Trichloroethene	MW 56	6/26/2008	mg/L	0.001 U
Trichloroethene	MW 56	12/17/2009	mg/L	0.001 U

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Analyte	Location	Date	Unit	Result
Trichloroethene	MW 56	10/28/2010	mg/L	0.001 U
Trichloroethene	MW 56	10/6/2011	mg/L	0.001 U
Trichloroethene	MW 56	10/16/2012	mg/L	0.001 U
Trichloroethene	MW 56	10/29/2013	mg/L	0.001 U
Trichloroethene	MW 56	10/29/2014	mg/L	0.001 U / 0.001 U
Trichloroethene	MW 56	10/19/2015	mg/L	0.001 U
Trichloroethene	MW 57	1/10/2005	mg/L	0.001 U
Trichloroethene	MW 57	10/19/2005	mg/L	0.001 U
Trichloroethene	MW 57	2/1/2006	mg/L	0.00026 J
Trichloroethene	MW 57	4/18/2006	mg/L	0.001 U
Trichloroethene	MW 57	7/18/2006	mg/L	0.001 U
Trichloroethene	MW 57	10/17/2006	mg/L	0.00011 J
Trichloroethene	MW 57	1/24/2007	mg/L	0.001 UJ
Trichloroethene	MW 57	4/16/2007	mg/L	0.001 U
Trichloroethene	MW 57	7/10/2007	mg/L	0.001 U
Trichloroethene	MW 57	10/17/2007	mg/L	0.001 U
Trichloroethene	MW 57	6/25/2008	mg/L	0.001 U
Trichloroethene	MW 57	12/16/2009	mg/L	0.001 U
Trichloroethene	MW 57	10/28/2010	mg/L	0.001 U
Trichloroethene	MW 57	10/28/2010	mg/L	0.001 U
Trichloroethene	MW 57	10/6/2011	mg/L	0.001 U
Trichloroethene	MW 57	10/16/2012	mg/L	0.001 U
Trichloroethene	MW 57	10/29/2013	mg/L	0.001 U
Trichloroethene	MW 57	10/29/2014	mg/L	0.001 U
Trichloroethene	MW 57	10/19/2015	mg/L	0.001 U
Trichloroethene	MW 58	1/10/2005	mg/L	0.001 U
Trichloroethene	MW 58	10/19/2005	mg/L	0.001 U
Trichloroethene	MW 58	10/17/2006	mg/L	0.0059
Trichloroethene	MW 58	10/17/2007	mg/L	0.00059 J
Trichloroethene	MW 58	2/18/2008	mg/L	0.001 U
Trichloroethene	MW 58	6/25/2008	mg/L	0.001 U
Trichloroethene	MW 58	12/17/2009	mg/L	0.0031 U
Trichloroethene	MW 58	10/28/2010	mg/L	0.001 U
Trichloroethene	MW 58	10/6/2011	mg/L	0.008 U
Trichloroethene	MW 58	10/16/2012	mg/L	0.005 U
Trichloroethene	MW 58	10/16/2012	mg/L	0.0057 U
Trichloroethene	MW 58	10/29/2013	mg/L	0.002 U
Trichloroethene	MW 58	10/29/2014	mg/L	0.0033 U
Trichloroethene	MW 58	10/20/2015	mg/L	0.0057 U / 0.005 U
Trichloroethene	MW 61	1/11/2005	mg/L	0.001 U
Trichloroethene	MW 61	6/24/2008	mg/L	0.001 U
Trichloroethene	MW 61	12/3/2009	mg/L	0.001 U
Trichloroethene	MW 61	10/26/2010	mg/L	0.005 U
Trichloroethene	MW 61	10/26/2010	mg/L	0.005 U
Trichloroethene	MW 61	10/3/2011	mg/L	0.001 U
Trichloroethene	MW 61	10/10/2012	mg/L	0.001 U
Trichloroethene	MW 61	10/23/2013	mg/L	0.001 U
Trichloroethene	MW 61	10/21/2014	mg/L	0.001 U
Trichloroethene	MW 61	10/9/2015	mg/L	0.001 U

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Analyte	Location	Date	Unit	Result
Trichloroethene	MW 64	1/11/2005	mg/L	0.001 U
Trichloroethene	MW 64	10/19/2005	mg/L	0.0002 J
Trichloroethene	MW 64	10/18/2006	mg/L	0.00011 J
Trichloroethene	MW 64	10/19/2007	mg/L	0.00014 J
Trichloroethene	MW 64	2/18/2008	mg/L	0.037
Trichloroethene	MW 64	2/18/2008	mg/L	0.063
Trichloroethene	MW 64	6/26/2008	mg/L	0.001 U
Trichloroethene	MW 64	12/8/2009	mg/L	0.00011 J
Trichloroethene	MW 64	12/8/2009	mg/L	0.00014 J
Trichloroethene	MW 64	10/25/2010	mg/L	0.005 U
Trichloroethene	MW 64	10/3/2011	mg/L	0.001 U
Trichloroethene	MW 64	10/11/2012	mg/L	0.001 U
Trichloroethene	MW 64	10/11/2012	mg/L	0.001 U
Trichloroethene	MW 64	10/22/2013	mg/L	0.0017 U
Trichloroethene	MW 64	10/28/2014	mg/L	0.0067 U
Trichloroethene	MW 64	10/13/2015	mg/L	0.01 U
Trichloroethene	MW 65	1/10/2005	mg/L	0.005 U
Trichloroethene	MW 65	10/18/2007	mg/L	0.001 U
Trichloroethene	MW 65	2/15/2008	mg/L	0.17 U
Trichloroethene	MW 65	6/27/2008	mg/L	0.031 U
Trichloroethene	MW 65	12/4/2008	mg/L	0.13 U
Trichloroethene	MW 65	4/28/2009	mg/L	0.05 U
Trichloroethene	MW 65	12/4/2009	mg/L	0.05 U
Trichloroethene	MW 65	10/25/2010	mg/L	0.125 U
Trichloroethene	MW 65	10/3/2011	mg/L	0.04 U
Trichloroethene	MW 65	10/11/2012	mg/L	0.014 U
Trichloroethene	MW 65	10/22/2013	mg/L	0.0057 U
Trichloroethene	MW 65	10/22/2014	mg/L	0.002 U / 0.0017 U
Trichloroethene	MW 65	10/8/2015	mg/L	0.002 U
Trichloroethene	MW 66	1/11/2005	mg/L	0.001 U
Trichloroethene	MW 66	1/11/2005	mg/L	0.001 U
Trichloroethene	MW 66	10/18/2005	mg/L	0.001 U
Trichloroethene	MW 66	10/18/2006	mg/L	0.001 U
Trichloroethene	MW 66	10/19/2007	mg/L	0.001 U
Trichloroethene	MW 66	10/19/2007	mg/L	0.001 U
Trichloroethene	MW 66	2/18/2008	mg/L	0.00034 J
Trichloroethene	MW 66	6/26/2008	mg/L	0.001 U
Trichloroethene	MW 66	12/4/2008	mg/L	0.001 U
Trichloroethene	MW 66	4/28/2009	mg/L	0.001 U
Trichloroethene	MW 66	4/28/2009	mg/L	0.001 U
Trichloroethene	MW 66	12/8/2009	mg/L	0.001 U
Trichloroethene	MW 66	10/25/2010	mg/L	0.005 U
Trichloroethene	MW 66	4/19/2011	mg/L	0.01 U
Trichloroethene	MW 66	4/19/2011	mg/L	0.01 U
Trichloroethene	MW 66	10/3/2011	mg/L	0.017 U
Trichloroethene	MW 66	5/14/2012	mg/L	0.0083 U
Trichloroethene	MW 66	10/11/2012	mg/L	0.013 U
Trichloroethene	MW 66	4/10/2013	mg/L	0.017 U
Trichloroethene	MW 66	10/22/2013	mg/L	0.025 U

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Analyte	Location	Date	Unit	Result
Trichloroethene	MW 66	4/11/2014	mg/L	0.011 U
Trichloroethene	MW 66	10/27/2014	mg/L	0.02 U
Trichloroethene	MW 66	4/27/2015	mg/L	0.025 U
Trichloroethene	MW 66	10/13/2015	mg/L	0.04 U
Trichloroethene	MW 68	1/18/2005	mg/L	0.1
Trichloroethene	MW 68	10/19/2005	mg/L	0.35 J
Trichloroethene	MW 68	10/19/2005	mg/L	0.32 J
Trichloroethene	MW 68	1/31/2006	mg/L	0.43 J
Trichloroethene	MW 68	4/18/2006	mg/L	0.5 U
Trichloroethene	MW 68	7/19/2006	mg/L	0.4 J
Trichloroethene	MW 68	10/19/2006	mg/L	1.1 J
Trichloroethene	MW 68	1/23/2007	mg/L	0.63 J
Trichloroethene	MW 68	4/18/2007	mg/L	0.41 J
Trichloroethene	MW 68	7/9/2007	mg/L	2.4
Trichloroethene	MW 68	10/16/2007	mg/L	0.49 J
Trichloroethene	MW 68	2/19/2008	mg/L	0.57
Trichloroethene	MW 68	6/27/2008	mg/L	2.6
Trichloroethene	MW 68	12/5/2008	mg/L	1.1
Trichloroethene	MW 68	4/29/2009	mg/L	1.4
Trichloroethene	MW 68	12/16/2009	mg/L	2.3
Trichloroethene	MW 68	12/16/2009	mg/L	2.4
Trichloroethene	MW 68	10/26/2010	mg/L	1.94
Trichloroethene	MW 68	4/18/2011	mg/L	2.4
Trichloroethene	MW 68	10/4/2011	mg/L	1.9
Trichloroethene	MW 68	10/4/2011	mg/L	1.9
Trichloroethene	MW 68	5/14/2012	mg/L	1.8
Trichloroethene	MW 68	10/12/2012	mg/L	1.9
Trichloroethene	MW 68	4/10/2013	mg/L	2.1
Trichloroethene	MW 68	4/10/2013	mg/L	1.9
Trichloroethene	MW 68	10/23/2013	mg/L	2
Trichloroethene	MW 68	11/14/2013	mg/L	1.9 / 1.9
Trichloroethene	MW 68	4/10/2014	mg/L	1.8
Trichloroethene	MW 68	10/23/2014	mg/L	1.5
Trichloroethene	MW 68	4/28/2015	mg/L	1.5 / 1.5
Trichloroethene	MW 68	10/13/2015	mg/L	1.4 / 1.3
Trichloroethene	MW 75	1/14/2005	mg/L	0.001 U
Trichloroethene	MW 75	10/19/2005	mg/L	0.001 U
Trichloroethene	MW 75	10/19/2006	mg/L	0.001 UJ
Trichloroethene	MW 75	10/16/2007	mg/L	0.001 U
Trichloroethene	MW 75	6/30/2008	mg/L	0.001 U
Trichloroethene	MW 75	10/27/2010	mg/L	0.001 U
Trichloroethene	MW 75	10/5/2011	mg/L	0.001 U
Trichloroethene	MW 75	10/12/2012	mg/L	0.001 U
Trichloroethene	MW 75	10/23/2013	mg/L	0.001 U
Trichloroethene	MW 75	10/21/2014	mg/L	0.001 U
Trichloroethene	MW 76	1/14/2005	mg/L	0.001 U
Trichloroethene	MW 76	10/20/2005	mg/L	0.001 U
Trichloroethene	MW 76	10/19/2006	mg/L	0.001 UJ
Trichloroethene	MW 76	10/16/2007	mg/L	0.001 U

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Analyte	Location	Date	Unit	Result
Trichloroethene	MW 76	10/27/2010	mg/L	0.001 U
Trichloroethene	MW 76	10/5/2011	mg/L	0.001 U
Trichloroethene	MW 76	10/5/2011	mg/L	0.001 U
Trichloroethene	MW 76	10/12/2012	mg/L	0.00021 J
Trichloroethene	MW 76	10/23/2013	mg/L	0.001 U
Trichloroethene	MW 76	10/23/2013	mg/L	0.001 U
Trichloroethene	MW 76	10/21/2014	mg/L	0.001 U
Trichloroethene	MW 79	1/13/2005	mg/L	0.12
Trichloroethene	MW 79	10/15/2007	mg/L	0.05 U
Trichloroethene	MW 79	12/5/2008	mg/L	0.071 U
Trichloroethene	MW 79	4/29/2009	mg/L	0.05 U
Trichloroethene	MW 79	12/14/2009	mg/L	0.05 U
Trichloroethene	MW 79	10/27/2010	mg/L	0.001 U
Trichloroethene	MW 79	4/20/2011	mg/L	0.04 U
Trichloroethene	MW 79	10/4/2011	mg/L	0.067 U
Trichloroethene	MW 79	5/15/2012	mg/L	0.05 U
Trichloroethene	MW 79	10/15/2012	mg/L	0.071 U
Trichloroethene	MW 79	10/15/2012	mg/L	0.071 U
Trichloroethene	MW 79	4/9/2013	mg/L	0.083 U
Trichloroethene	MW 79	10/28/2013	mg/L	0.05 U
Trichloroethene	MW 79	4/15/2014	mg/L	0.1 U
Trichloroethene	MW 79	10/28/2014	mg/L	0.1 U / 0.1 U
Trichloroethene	MW 79	4/29/2015	mg/L	0.1 U
Trichloroethene	MW 79	10/13/2015	mg/L	0.083 U
Trichloroethene	MW 80	3/9/2005	mg/L	0.001 U
Trichloroethene	MW 80	3/9/2005	mg/L	0.001 U
Trichloroethene	MW 80	10/18/2005	mg/L	0.0083 U
Trichloroethene	MW 80	10/18/2006	mg/L	0.00021 J
Trichloroethene	MW 80	10/17/2007	mg/L	0.001 U
Trichloroethene	MW 80	6/27/2008	mg/L	0.005 U
Trichloroethene	MW 80	6/27/2008	mg/L	0.005 U
Trichloroethene	MW 80	12/8/2009	mg/L	0.001 U
Trichloroethene	MW 80	10/25/2010	mg/L	0.005 U
Trichloroethene	MW 80	10/3/2011	mg/L	0.001 U
Trichloroethene	MW 80	10/11/2012	mg/L	0.001 U
Trichloroethene	MW 80	10/22/2013	mg/L	0.0017 U
Trichloroethene	MW 80	10/24/2014	mg/L	0.001 U
Trichloroethene	MW 80	10/8/2015	mg/L	0.0017 U
Trichloroethene	MW 81	3/9/2005	mg/L	0.001 U
Trichloroethene	MW 81	3/30/2005	mg/L	0.001 UJ
Trichloroethene	MW 81	10/19/2005	mg/L	0.001 U
Trichloroethene	MW 81	10/18/2006	mg/L	0.001 U
Trichloroethene	MW 81	10/18/2006	mg/L	0.001 U
Trichloroethene	MW 81	10/18/2007	mg/L	0.001 U
Trichloroethene	MW 81	2/15/2008	mg/L	0.001 U
Trichloroethene	MW 81	6/26/2008	mg/L	0.001 U
Trichloroethene	MW 81	12/4/2009	mg/L	0.001 U
Trichloroethene	MW 81	10/25/2010	mg/L	0.005 U
Trichloroethene	MW 81	10/3/2011	mg/L	0.002 U

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Analyte	Location	Date	Unit	Result
Trichloroethene	MW 81	10/11/2012	mg/L	0.002 U
Trichloroethene	MW 81	10/22/2013	mg/L	0.005 U
Trichloroethene	MW 81	10/22/2014	mg/L	0.0067 U
Trichloroethene	MW 81	10/8/2015	mg/L	0.008 U
Trichloroethene	MW 82	3/9/2005	mg/L	0.001 U
Trichloroethene	MW 82	10/20/2005	mg/L	0.001 U
Trichloroethene	MW 82	10/19/2006	mg/L	0.001 UJ
Trichloroethene	MW 82	10/16/2007	mg/L	0.001 U
Trichloroethene	MW 82	6/27/2008	mg/L	0.001 U
Trichloroethene	MW 82	12/15/2009	mg/L	0.001 U
Trichloroethene	MW 82	10/27/2010	mg/L	0.001 U
Trichloroethene	MW 82	10/4/2011	mg/L	0.001 U
Trichloroethene	MW 82	10/23/2013	mg/L	0.00066 J
Trichloroethene	MW 82	10/24/2014	mg/L	0.001 U
Trichloroethene	MW 82	10/12/2015	mg/L	0.001 U
Trichloroethene	MW 83	3/9/2005	mg/L	0.001 U
Trichloroethene	MW 83	10/18/2005	mg/L	0.001 U
Trichloroethene	MW 83	10/18/2006	mg/L	0.001 UJ
Trichloroethene	MW 83	10/18/2007	mg/L	0.001 U
Trichloroethene	MW 83	6/27/2008	mg/L	0.001 U
Trichloroethene	MW 83	12/8/2009	mg/L	0.001 U
Trichloroethene	MW 83	10/26/2010	mg/L	0.005 U
Trichloroethene	MW 83	10/4/2011	mg/L	0.001 U
Trichloroethene	MW 83	10/10/2012	mg/L	0.001 U
Trichloroethene	MW 83	10/24/2013	mg/L	0.00023 J
Trichloroethene	MW 83	10/22/2014	mg/L	0.001 U
Trichloroethene	MW 83	10/9/2015	mg/L	0.001 U
Trichloroethene	MW 85	2/19/2008	mg/L	0.0032 J
Trichloroethene	MW 85	6/25/2008	mg/L	0.001 U
Trichloroethene	MW 85	12/4/2008	mg/L	0.031 U
Trichloroethene	MW 85	4/30/2009	mg/L	0.025 U
Trichloroethene	MW 85	12/17/2009	mg/L	0.017 U
Trichloroethene	MW 85	10/28/2010	mg/L	0.001 U
Trichloroethene	MW 85	4/20/2011	mg/L	0.02 U
Trichloroethene	MW 85	10/6/2011	mg/L	0.029 U
Trichloroethene	MW 85	5/16/2012	mg/L	0.025 U
Trichloroethene	MW 85	10/16/2012	mg/L	0.17 U
Trichloroethene	MW 85	4/12/2013	mg/L	0.067 U
Trichloroethene	MW 85	10/29/2013	mg/L	0.067 U
Trichloroethene	MW 85	4/16/2014	mg/L	0.25 U
Trichloroethene	MW 85	10/29/2014	mg/L	0.25 U
Trichloroethene	MW 85	4/27/2015	mg/L	0.5 U
Trichloroethene	MW 85	10/19/2015	mg/L	0.33 U
Trichloroethene	MW 86	10/28/2010	mg/L	0.005 U
Trichloroethene	MW 86	10/28/2010	mg/L	0.001 U
Trichloroethene	MW 86	10/4/2011	mg/L	0.001 U
Trichloroethene	MW 86	10/11/2012	mg/L	0.001 U
Trichloroethene	MW 86	10/22/2013	mg/L	0.001 U
Trichloroethene	MW 86	10/22/2014	mg/L	0.001 U

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Trichloroethene	MW 86	10/8/2015	mg/L	0.001 U
Trichloroethene	MW 88	10/29/2010	mg/L	0.005 U
Trichloroethene	MW 88	10/3/2011	mg/L	0.001 U
Trichloroethene	MW 88	10/11/2012	mg/L	0.001 U
Trichloroethene	MW 88	10/22/2013	mg/L	0.001 U
Trichloroethene	MW 88	10/22/2014	mg/L	0.001 U
Trichloroethene	MW 88	10/8/2015	mg/L	0.001 U / 0.001 U
Trichloroethene	MW 89-11	12/8/2011	mg/L	0.001 U
Trichloroethene	MW 89-11	12/8/2011	mg/L	0.001 U
Trichloroethene	MW 89-11	10/17/2012	mg/L	0.001 U
Trichloroethene	MW 89-11	4/12/2013	mg/L	0.001 U
Trichloroethene	MW 89-11	4/12/2013	mg/L	0.001 U
Trichloroethene	MW 89-11	10/28/2013	mg/L	0.001 U
Trichloroethene	MW 89-11	4/16/2014	mg/L	0.00032 J
Trichloroethene	MW 89-11	10/28/2014	mg/L	0.001 U
Trichloroethene	MW 89-11	4/28/2015	mg/L	0.001 U
Trichloroethene	MW 89-11	10/15/2015	mg/L	0.001 U
Trichloroethene	Pond Intake	1/11/2005	mg/L	0.001 U
Trichloroethene	Pond Intake	4/19/2005	mg/L	0.001 U
Trichloroethene	Pond Intake	10/17/2005	mg/L	0.001 U
Trichloroethene	Pond Intake	2/1/2006	mg/L	0.001 U
Trichloroethene	Pond Intake	4/17/2006	mg/L	0.001 U
Trichloroethene	Pond Intake	7/18/2006	mg/L	0.001 U
Trichloroethene	Pond Intake	10/17/2006	mg/L	0.001 U
Trichloroethene	Pond Intake	1/22/2007	mg/L	0.001 U
Trichloroethene	Pond Intake	4/16/2007	mg/L	0.001 U
Trichloroethene	Pond Intake	5/9/2007	mg/L	0.001 U
Trichloroethene	Pond Intake	6/18/2007	mg/L	0.001 U
Trichloroethene	Pond Intake	7/10/2007	mg/L	0.001 U
Trichloroethene	Pond Intake	8/15/2007	mg/L	0.001 U
Trichloroethene	Pond Intake	9/27/2007	mg/L	0.001 U
Trichloroethene	Pond Intake	10/17/2007	mg/L	0.001 U
Trichloroethene	Pond Intake	11/9/2007	mg/L	0.001 U
Trichloroethene	Pond Intake	12/4/2007	mg/L	0.001 U
Trichloroethene	Pond Intake	2/18/2008	mg/L	0.001 U
Trichloroethene	Pond Intake	6/25/2008	mg/L	0.001 U
Trichloroethene	Pond Intake	9/23/2008	mg/L	0.001 U
Trichloroethene	Pond Intake	12/4/2008	mg/L	0.001 U
Trichloroethene	Pond Intake	3/4/2009	mg/L	0.001 U
Trichloroethene	Pond Intake	3/4/2009	mg/L	0.001 U
Trichloroethene	Pond Intake	4/30/2009	mg/L	0.001 U
Trichloroethene	Pond Intake	7/30/2009	mg/L	0.001 U
Trichloroethene	Pond Intake	7/30/2009	mg/L	0.001 U
Trichloroethene	Pond Intake	12/17/2009	mg/L	0.001 U
Trichloroethene	Pond Intake	8/4/2010	mg/L	0.005 U
Trichloroethene	Pond Intake	10/28/2010	mg/L	0.001 U
Trichloroethene	Pond Intake	4/20/2011	mg/L	0.001 U
Trichloroethene	Pond Intake	7/28/2011	mg/L	0.001 U
Trichloroethene	Pond Intake	10/6/2011	mg/L	0.001 U

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Trichloroethene	Pond Intake	10/6/2011	mg/L	0.001 U
Trichloroethene	Pond Intake	5/16/2012	mg/L	0.001 U
Trichloroethene	Pond Intake	8/2/2012	mg/L	0.001 U
Trichloroethene	Pond Intake	10/16/2012	mg/L	0.001 U
Trichloroethene	Pond Intake	4/12/2013	mg/L	0.001 U
Trichloroethene	Pond Intake	7/17/2013	mg/L	0.001 U
Trichloroethene	Pond Intake	10/29/2013	mg/L	0.001 U
Trichloroethene	Pond Intake	4/16/2014	mg/L	0.001 U
Trichloroethene	Pond Intake	7/17/2014	mg/L	0.001 U / 0.001 U
Trichloroethene	Pond Intake	10/29/2014	mg/L	0.001 U
Trichloroethene	Pond Intake	4/27/2015	mg/L	0.0013 U
Trichloroethene	Pond Intake	7/10/2015	mg/L	0.0033 U / 0.004 U
Trichloroethene	Pond Intake	10/20/2015	mg/L	0.001 U
Trichloroethene	Pond North	1/11/2005	mg/L	0.001 U
Trichloroethene	Pond North	4/19/2005	mg/L	0.001 U
Trichloroethene	Pond North	10/17/2005	mg/L	0.001 U
Trichloroethene	Pond North	2/1/2006	mg/L	0.001 U
Trichloroethene	Pond North	4/17/2006	mg/L	0.001 U
Trichloroethene	Pond North	7/18/2006	mg/L	0.001 U
Trichloroethene	Pond North	10/17/2006	mg/L	0.001 U
Trichloroethene	Pond North	1/22/2007	mg/L	0.0071 UJ
Trichloroethene	Pond North	4/16/2007	mg/L	0.001 U
Trichloroethene	Pond North	5/9/2007	mg/L	0.001 U
Trichloroethene	Pond North	6/18/2007	mg/L	0.001 U
Trichloroethene	Pond North	7/10/2007	mg/L	0.001 U
Trichloroethene	Pond North	8/15/2007	mg/L	0.001 U
Trichloroethene	Pond North	9/27/2007	mg/L	0.001 U
Trichloroethene	Pond North	10/17/2007	mg/L	0.001 U
Trichloroethene	Pond North	11/9/2007	mg/L	0.001 U
Trichloroethene	Pond North	12/4/2007	mg/L	0.001 U
Trichloroethene	Pond North	2/18/2008	mg/L	0.001 U
Trichloroethene	Pond North	6/25/2008	mg/L	0.001 U
Trichloroethene	Pond North	9/23/2008	mg/L	0.001 U
Trichloroethene	Pond North	9/23/2008	mg/L	0.001 U
Trichloroethene	Pond North	12/4/2008	mg/L	0.001 U
Trichloroethene	Pond North	3/4/2009	mg/L	0.001 U
Trichloroethene	Pond North	4/30/2009	mg/L	0.001 U
Trichloroethene	Pond North	7/30/2009	mg/L	0.001 U
Trichloroethene	Pond North	12/17/2009	mg/L	0.017 U
Trichloroethene	Pond North	8/4/2010	mg/L	0.005 U
Trichloroethene	Pond North	8/4/2010	mg/L	0.005 U
Trichloroethene	Pond North	10/28/2010	mg/L	0.001 U
Trichloroethene	Pond North	4/20/2011	mg/L	0.001 U
Trichloroethene	Pond North	7/28/2011	mg/L	0.001 U
Trichloroethene	Pond North	7/28/2011	mg/L	0.001 U
Trichloroethene	Pond North	10/6/2011	mg/L	0.001 U
Trichloroethene	Pond North	5/16/2012	mg/L	0.001 U
Trichloroethene	Pond North	5/16/2012	mg/L	0.001 U
Trichloroethene	Pond North	8/2/2012	mg/L	0.001 U

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Trichloroethene	Pond North	8/2/2012	mg/L	0.001 U
Trichloroethene	Pond North	10/16/2012	mg/L	0.0029 U
Trichloroethene	Pond North	4/12/2013	mg/L	0.001 U
Trichloroethene	Pond North	7/17/2013	mg/L	0.001 U
Trichloroethene	Pond North	7/17/2013	mg/L	0.001 U
Trichloroethene	Pond North	10/29/2013	mg/L	0.001 U
Trichloroethene	Pond North	4/16/2014	mg/L	0.0033 U
Trichloroethene	Pond North	7/17/2014	mg/L	0.01 U
Trichloroethene	Pond North	10/29/2014	mg/L	0.008 U
Trichloroethene	Pond North	4/27/2015	mg/L	0.008 U
Trichloroethene	Pond North	7/10/2015	mg/L	0.0033 U
Trichloroethene	Pond North	10/20/2015	mg/L	0.0014 U
cis-1,2-Dichloroethene	MW-2	5/9/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW-2	7/10/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW-2	10/17/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW-2	6/25/2008	mg/L	0.00015 J
cis-1,2-Dichloroethene	MW-2	12/17/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	MW-2	10/28/2010	mg/L	0.0021
cis-1,2-Dichloroethene	MW-2	10/6/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW-2	10/16/2012	mg/L	0.001 U
cis-1,2-Dichloroethene	MW-2	10/29/2013	mg/L	0.001 U
cis-1,2-Dichloroethene	MW-2	10/29/2013	mg/L	0.001 U
cis-1,2-Dichloroethene	MW-2	10/29/2014	mg/L	0.001 U
cis-1,2-Dichloroethene	MW-2	10/19/2015	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 3	2/1/2005	mg/L	5.3
cis-1,2-Dichloroethene	MW 3	2/1/2005	mg/L	5.3
cis-1,2-Dichloroethene	MW 3	10/18/2005	mg/L	0.0042 U
cis-1,2-Dichloroethene	MW 3	1/31/2006	mg/L	3
cis-1,2-Dichloroethene	MW 3	4/18/2006	mg/L	4.1
cis-1,2-Dichloroethene	MW 3	4/18/2006	mg/L	4.1
cis-1,2-Dichloroethene	MW 3	7/19/2006	mg/L	4.5
cis-1,2-Dichloroethene	MW 3	7/19/2006	mg/L	4.2
cis-1,2-Dichloroethene	MW 3	10/16/2006	mg/L	2.5
cis-1,2-Dichloroethene	MW 3	1/24/2007	mg/L	5.4
cis-1,2-Dichloroethene	MW 3	4/17/2007	mg/L	3.4
cis-1,2-Dichloroethene	MW 3	4/17/2007	mg/L	3.1
cis-1,2-Dichloroethene	MW 3	7/11/2007	mg/L	4.4
cis-1,2-Dichloroethene	MW 3	10/16/2007	mg/L	2.1
cis-1,2-Dichloroethene	MW 3	2/18/2008	mg/L	7.7
cis-1,2-Dichloroethene	MW 3	6/30/2008	mg/L	6.6
cis-1,2-Dichloroethene	MW 3	6/30/2008	mg/L	6.5
cis-1,2-Dichloroethene	MW 3	12/4/2008	mg/L	2.8
cis-1,2-Dichloroethene	MW 3	4/30/2009	mg/L	12
cis-1,2-Dichloroethene	MW 3	12/15/2009	mg/L	2.3
cis-1,2-Dichloroethene	MW 3	12/15/2009	mg/L	2.4
cis-1,2-Dichloroethene	MW 3	10/28/2010	mg/L	1.24
cis-1,2-Dichloroethene	MW 3	10/28/2010	mg/L	1.08
cis-1,2-Dichloroethene	MW 3	4/18/2011	mg/L	8.9

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cis-1,2-Dichloroethene	MW 3	10/5/2011	mg/L	5.7
cis-1,2-Dichloroethene	MW 3	5/16/2012	mg/L	8.9
cis-1,2-Dichloroethene	MW 3	10/15/2012	mg/L	1.2
cis-1,2-Dichloroethene	MW 3	4/9/2013	mg/L	6.2
cis-1,2-Dichloroethene	MW 3	10/24/2013	mg/L	0.93
cis-1,2-Dichloroethene	MW 3	10/24/2013	mg/L	1
cis-1,2-Dichloroethene	MW 3	4/15/2014	mg/L	4.7
cis-1,2-Dichloroethene	MW 3	10/23/2014	mg/L	1
cis-1,2-Dichloroethene	MW 3	4/28/2015	mg/L	4.5
cis-1,2-Dichloroethene	MW 3	10/14/2015	mg/L	1.4
cis-1,2-Dichloroethene	MW-4	1/11/2005	mg/L	6.1
cis-1,2-Dichloroethene	MW-4	10/19/2005	mg/L	13
cis-1,2-Dichloroethene	MW-4	2/1/2006	mg/L	8.6
cis-1,2-Dichloroethene	MW-4	4/18/2006	mg/L	5.4
cis-1,2-Dichloroethene	MW-4	7/18/2006	mg/L	8.1
cis-1,2-Dichloroethene	MW-4	10/17/2006	mg/L	23
cis-1,2-Dichloroethene	MW-4	1/24/2007	mg/L	7.7
cis-1,2-Dichloroethene	MW-4	4/16/2007	mg/L	11 J
cis-1,2-Dichloroethene	MW-4	7/10/2007	mg/L	11
cis-1,2-Dichloroethene	MW-4	7/10/2007	mg/L	13
cis-1,2-Dichloroethene	MW-4	10/17/2007	mg/L	6.7
cis-1,2-Dichloroethene	MW-4	10/17/2007	mg/L	7.7
cis-1,2-Dichloroethene	MW-4	2/18/2008	mg/L	15
cis-1,2-Dichloroethene	MW-4	6/25/2008	mg/L	11
cis-1,2-Dichloroethene	MW-4	6/25/2008	mg/L	9.2
cis-1,2-Dichloroethene	MW-4	12/3/2008	mg/L	18
cis-1,2-Dichloroethene	MW-4	4/30/2009	mg/L	7.8
cis-1,2-Dichloroethene	MW-4	4/30/2009	mg/L	7.5
cis-1,2-Dichloroethene	MW-4	12/16/2009	mg/L	16
cis-1,2-Dichloroethene	MW-4	12/16/2009	mg/L	16
cis-1,2-Dichloroethene	MW-4	10/28/2010	mg/L	12.6
cis-1,2-Dichloroethene	MW-4	4/20/2011	mg/L	8.8
cis-1,2-Dichloroethene	MW-4	4/20/2011	mg/L	8.7
cis-1,2-Dichloroethene	MW-4	10/6/2011	mg/L	11
cis-1,2-Dichloroethene	MW-4	5/16/2012	mg/L	11
cis-1,2-Dichloroethene	MW-4	10/16/2012	mg/L	14
cis-1,2-Dichloroethene	MW-4	4/12/2013	mg/L	12
cis-1,2-Dichloroethene	MW-4	10/29/2013	mg/L	14
cis-1,2-Dichloroethene	MW-4	4/16/2014	mg/L	13 / 13
cis-1,2-Dichloroethene	MW-4	10/29/2014	mg/L	12
cis-1,2-Dichloroethene	MW-4	4/27/2015	mg/L	10
cis-1,2-Dichloroethene	MW-4	10/19/2015	mg/L	12
cis-1,2-Dichloroethene	MW 8	2/2/2005	mg/L	17
cis-1,2-Dichloroethene	MW 8	10/17/2005	mg/L	5.8
cis-1,2-Dichloroethene	MW 8	10/17/2005	mg/L	5.5
cis-1,2-Dichloroethene	MW 8	2/1/2006	mg/L	12 J
cis-1,2-Dichloroethene	MW 8	4/17/2006	mg/L	16
cis-1,2-Dichloroethene	MW 8	7/18/2006	mg/L	4.6
cis-1,2-Dichloroethene	MW 8	10/16/2006	mg/L	5.4

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cis-1,2-Dichloroethene	MW 8	1/23/2007	mg/L	10
cis-1,2-Dichloroethene	MW 8	4/16/2007	mg/L	9.1
cis-1,2-Dichloroethene	MW 8	7/10/2007	mg/L	7.5
cis-1,2-Dichloroethene	MW 8	10/15/2007	mg/L	9.6
cis-1,2-Dichloroethene	MW 8	6/27/2008	mg/L	22
cis-1,2-Dichloroethene	MW 8	12/15/2009	mg/L	0.24
cis-1,2-Dichloroethene	MW 8	10/27/2010	mg/L	5.44
cis-1,2-Dichloroethene	MW 8	4/18/2011	mg/L	8.5
cis-1,2-Dichloroethene	MW 8	10/5/2011	mg/L	7.1
cis-1,2-Dichloroethene	MW 8	5/15/2012	mg/L	5.1
cis-1,2-Dichloroethene	MW 8	5/15/2012	mg/L	5.2
cis-1,2-Dichloroethene	MW 8	10/15/2012	mg/L	3.8
cis-1,2-Dichloroethene	MW 8	4/9/2013	mg/L	3.5
cis-1,2-Dichloroethene	MW 8	10/24/2013	mg/L	4.2
cis-1,2-Dichloroethene	MW 8	4/15/2014	mg/L	9.3
cis-1,2-Dichloroethene	MW 8	10/23/2014	mg/L	4.4
cis-1,2-Dichloroethene	MW 8	4/28/2015	mg/L	3.8
cis-1,2-Dichloroethene	MW 8	10/14/2015	mg/L	4.8
cis-1,2-Dichloroethene	MW 12	2/2/2005	mg/L	1
cis-1,2-Dichloroethene	MW 12	10/19/2005	mg/L	0.96 / 1
cis-1,2-Dichloroethene	MW 12	1/31/2006	mg/L	0.97
cis-1,2-Dichloroethene	MW 12	4/18/2006	mg/L	0.51
cis-1,2-Dichloroethene	MW 12	7/18/2006	mg/L	0.41 / 0.45
cis-1,2-Dichloroethene	MW 12	10/19/2006	mg/L	0.67
cis-1,2-Dichloroethene	MW 12	1/22/2007	mg/L	0.51
cis-1,2-Dichloroethene	MW 12	4/18/2007	mg/L	0.44
cis-1,2-Dichloroethene	MW 12	7/11/2007	mg/L	0.61
cis-1,2-Dichloroethene	MW 12	10/19/2007	mg/L	0.59
cis-1,2-Dichloroethene	MW 12	6/27/2008	mg/L	0.46
cis-1,2-Dichloroethene	MW 12	12/5/2008	mg/L	0.48
cis-1,2-Dichloroethene	MW 12	4/29/2009	mg/L	0.49
cis-1,2-Dichloroethene	MW 12	12/9/2009	mg/L	0.42
cis-1,2-Dichloroethene	MW 12	10/26/2010	mg/L	0.324
cis-1,2-Dichloroethene	MW 12	4/20/2011	mg/L	0.29
cis-1,2-Dichloroethene	MW 12	10/5/2011	mg/L	0.24
cis-1,2-Dichloroethene	MW 12	5/15/2012	mg/L	0.24
cis-1,2-Dichloroethene	MW 12	10/11/2012	mg/L	0.2
cis-1,2-Dichloroethene	MW 12	4/9/2013	mg/L	0.21
cis-1,2-Dichloroethene	MW 12	10/23/2013	mg/L	0.24
cis-1,2-Dichloroethene	MW 12	4/11/2014	mg/L	0.21
cis-1,2-Dichloroethene	MW 12	10/24/2014	mg/L	0.15 / 0.16
cis-1,2-Dichloroethene	MW 12	4/27/2015	mg/L	0.13
cis-1,2-Dichloroethene	MW 12	10/9/2015	mg/L	0.08
cis-1,2-Dichloroethene	MW 14	2/2/2005	mg/L	7.4
cis-1,2-Dichloroethene	MW 14	10/17/2005	mg/L	7.4
cis-1,2-Dichloroethene	MW 14	2/1/2006	mg/L	5.7
cis-1,2-Dichloroethene	MW 14	4/18/2006	mg/L	4.7
cis-1,2-Dichloroethene	MW 14	7/19/2006	mg/L	4.1
cis-1,2-Dichloroethene	MW 14	10/18/2006	mg/L	4.3 J

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cis-1,2-Dichloroethene	MW 14	1/24/2007	mg/L	4.7
cis-1,2-Dichloroethene	MW 14	4/17/2007	mg/L	5.8 J
cis-1,2-Dichloroethene	MW 14	7/9/2007	mg/L	6.6
cis-1,2-Dichloroethene	MW 14	10/16/2007	mg/L	7.7
cis-1,2-Dichloroethene	MW 14	6/30/2008	mg/L	6
cis-1,2-Dichloroethene	MW 14	12/5/2008	mg/L	6.1
cis-1,2-Dichloroethene	MW 14	4/29/2009	mg/L	6.1
cis-1,2-Dichloroethene	MW 14	12/15/2009	mg/L	0.33
cis-1,2-Dichloroethene	MW 14	10/27/2010	mg/L	5.22
cis-1,2-Dichloroethene	MW 14	4/18/2011	mg/L	4.9
cis-1,2-Dichloroethene	MW 14	10/5/2011	mg/L	4.7
cis-1,2-Dichloroethene	MW 14	5/15/2012	mg/L	4.4
cis-1,2-Dichloroethene	MW 14	10/15/2012	mg/L	4.9
cis-1,2-Dichloroethene	MW 14	4/9/2013	mg/L	3.6
cis-1,2-Dichloroethene	MW 14	4/9/2013	mg/L	3.9
cis-1,2-Dichloroethene	MW 14	10/25/2013	mg/L	6.1
cis-1,2-Dichloroethene	MW 14	10/25/2013	mg/L	5
cis-1,2-Dichloroethene	MW 14	4/15/2014	mg/L	5.7 / 5.5
cis-1,2-Dichloroethene	MW 14	10/24/2014	mg/L	4.9
cis-1,2-Dichloroethene	MW 14	4/29/2015	mg/L	4.5/4.8
cis-1,2-Dichloroethene	MW 14	10/12/2015	mg/L	4.7
cis-1,2-Dichloroethene	MW 28	10/18/2005	mg/L	0.0063 U
cis-1,2-Dichloroethene	MW 28	10/19/2006	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 28	10/18/2007	mg/L	0.0071 U
cis-1,2-Dichloroethene	MW 28	6/24/2008	mg/L	0.0042 U
cis-1,2-Dichloroethene	MW 28	12/4/2008	mg/L	0.005 U
cis-1,2-Dichloroethene	MW 28	4/29/2009	mg/L	0.005 U
cis-1,2-Dichloroethene	MW 28	12/4/2009	mg/L	0.0063 U
cis-1,2-Dichloroethene	MW 28	10/26/2010	mg/L	0.005 U
cis-1,2-Dichloroethene	MW 28	4/19/2011	mg/L	0.002 U
cis-1,2-Dichloroethene	MW 28	10/3/2011	mg/L	0.0033 U
cis-1,2-Dichloroethene	MW 28	5/14/2012	mg/L	0.0011 J
cis-1,2-Dichloroethene	MW 28	10/10/2012	mg/L	0.018
cis-1,2-Dichloroethene	MW 28	4/10/2013	mg/L	0.13
cis-1,2-Dichloroethene	MW 28	10/23/2013	mg/L	0.31
cis-1,2-Dichloroethene	MW 28	4/15/2014	mg/L	0.57 / 0.56
cis-1,2-Dichloroethene	MW 28	10/27/2014	mg/L	0.56
cis-1,2-Dichloroethene	MW 28	4/29/2015	mg/L	0.6
cis-1,2-Dichloroethene	MW 28	10/12/2015	mg/L	0.86
cis-1,2-Dichloroethene	MW 31R	10/18/2005	mg/L	45
cis-1,2-Dichloroethene	MW 31R	1/31/2006	mg/L	16
cis-1,2-Dichloroethene	MW 31R	4/19/2006	mg/L	8.7
cis-1,2-Dichloroethene	MW 31R	7/19/2006	mg/L	12
cis-1,2-Dichloroethene	MW 31R	10/17/2006	mg/L	6.3 J
cis-1,2-Dichloroethene	MW 31R	10/17/2006	mg/L	6.8
cis-1,2-Dichloroethene	MW 31R	1/23/2007	mg/L	7.3
cis-1,2-Dichloroethene	MW 31R	1/23/2007	mg/L	7.8
cis-1,2-Dichloroethene	MW 31R	4/17/2007	mg/L	10
cis-1,2-Dichloroethene	MW 31R	7/11/2007	mg/L	13

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cis-1,2-Dichloroethene	MW 31R	10/17/2007	mg/L	12
cis-1,2-Dichloroethene	MW 31R	2/14/2008	mg/L	15
cis-1,2-Dichloroethene	MW 31R	2/14/2008	mg/L	16
cis-1,2-Dichloroethene	MW 31R	12/4/2008	mg/L	14
cis-1,2-Dichloroethene	MW 31R	4/29/2009	mg/L	11
cis-1,2-Dichloroethene	MW 31R	12/15/2009	mg/L	11
cis-1,2-Dichloroethene	MW 31R	10/28/2010	mg/L	6.44
cis-1,2-Dichloroethene	MW 31R	4/18/2011	mg/L	6.2
cis-1,2-Dichloroethene	MW 31R	10/4/2011	mg/L	5.1
cis-1,2-Dichloroethene	MW 31R	5/15/2012	mg/L	8.8
cis-1,2-Dichloroethene	MW 31R	10/15/2012	mg/L	6.2
cis-1,2-Dichloroethene	MW 31R	4/9/2013	mg/L	8.3
cis-1,2-Dichloroethene	MW 31R	10/24/2013	mg/L	7.2
cis-1,2-Dichloroethene	MW 31R	4/15/2014	mg/L	12
cis-1,2-Dichloroethene	MW 31R	10/27/2014	mg/L	7.3
cis-1,2-Dichloroethene	MW 31R	4/28/2015	mg/L	11
cis-1,2-Dichloroethene	MW 31R	10/14/2015	mg/L	6.6
cis-1,2-Dichloroethene	MW 37	1/18/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 37	1/18/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 37	10/17/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 37	6/26/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 37	12/16/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 37	10/27/2010	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 37	10/5/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 37	10/17/2012	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 37	10/17/2012	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 37	10/25/2013	mg/L	0.0011
cis-1,2-Dichloroethene	MW 37	10/22/2014	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 37	10/9/2015	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 40	1/12/2005	mg/L	13
cis-1,2-Dichloroethene	MW 40	10/18/2005	mg/L	16
cis-1,2-Dichloroethene	MW 40	1/30/2006	mg/L	15
cis-1,2-Dichloroethene	MW 40	4/17/2006	mg/L	8.5
cis-1,2-Dichloroethene	MW 40	7/19/2006	mg/L	9.4
cis-1,2-Dichloroethene	MW 40	10/18/2006	mg/L	12
cis-1,2-Dichloroethene	MW 40	1/23/2007	mg/L	11
cis-1,2-Dichloroethene	MW 40	4/18/2007	mg/L	9.6
cis-1,2-Dichloroethene	MW 40	7/10/2007	mg/L	10
cis-1,2-Dichloroethene	MW 40	10/18/2007	mg/L	17
cis-1,2-Dichloroethene	MW 40	2/15/2008	mg/L	17
cis-1,2-Dichloroethene	MW 40	6/26/2008	mg/L	15 J
cis-1,2-Dichloroethene	MW 40	12/3/2008	mg/L	13
cis-1,2-Dichloroethene	MW 40	12/3/2008	mg/L	13
cis-1,2-Dichloroethene	MW 40	4/30/2009	mg/L	13
cis-1,2-Dichloroethene	MW 40	12/9/2009	mg/L	13
cis-1,2-Dichloroethene	MW 40	10/26/2010	mg/L	7.66
cis-1,2-Dichloroethene	MW 40	4/19/2011	mg/L	8.8
cis-1,2-Dichloroethene	MW 40	10/4/2011	mg/L	7.6
cis-1,2-Dichloroethene	MW 40	5/14/2012	mg/L	7.9

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cis-1,2-Dichloroethene	MW 40	10/10/2012	mg/L	6.7
cis-1,2-Dichloroethene	MW 40	4/9/2013	mg/L	7.9
cis-1,2-Dichloroethene	MW 40	10/24/2013	mg/L	8.1
cis-1,2-Dichloroethene	MW 40	4/14/2014	mg/L	11
cis-1,2-Dichloroethene	MW 40	10/27/2014	mg/L	7.2
cis-1,2-Dichloroethene	MW 40	4/28/2015	mg/L	7.5
cis-1,2-Dichloroethene	MW 40	10/13/2015	mg/L	6.3
cis-1,2-Dichloroethene	MW 41	10/17/2005	mg/L	4.3
cis-1,2-Dichloroethene	MW 41	1/30/2006	mg/L	8.5
cis-1,2-Dichloroethene	MW 41	4/17/2006	mg/L	5.1
cis-1,2-Dichloroethene	MW 41	4/17/2006	mg/L	4.7
cis-1,2-Dichloroethene	MW 41	7/18/2006	mg/L	5.4
cis-1,2-Dichloroethene	MW 41	10/18/2006	mg/L	6.5 J
cis-1,2-Dichloroethene	MW 41	1/23/2007	mg/L	6.5
cis-1,2-Dichloroethene	MW 41	4/18/2007	mg/L	5.1
cis-1,2-Dichloroethene	MW 41	4/18/2007	mg/L	4.1
cis-1,2-Dichloroethene	MW 41	7/10/2007	mg/L	8.3
cis-1,2-Dichloroethene	MW 41	10/18/2007	mg/L	10
cis-1,2-Dichloroethene	MW 41	2/15/2008	mg/L	9.8
cis-1,2-Dichloroethene	MW 41	6/24/2008	mg/L	7
cis-1,2-Dichloroethene	MW 41	12/3/2008	mg/L	9.5
cis-1,2-Dichloroethene	MW 41	4/28/2009	mg/L	10
cis-1,2-Dichloroethene	MW 41	12/3/2009	mg/L	8.4
cis-1,2-Dichloroethene	MW 41	10/25/2010	mg/L	6.94
cis-1,2-Dichloroethene	MW 41	4/19/2011	mg/L	6.3
cis-1,2-Dichloroethene	MW 41	10/4/2011	mg/L	6.3
cis-1,2-Dichloroethene	MW 41	5/14/2012	mg/L	6
cis-1,2-Dichloroethene	MW 41	10/10/2012	mg/L	6.8
cis-1,2-Dichloroethene	MW 41	4/9/2013	mg/L	6.3
cis-1,2-Dichloroethene	MW 41	10/25/2013	mg/L	7.2
cis-1,2-Dichloroethene	MW 41	4/14/2014	mg/L	7.6
cis-1,2-Dichloroethene	MW 41	10/23/2014	mg/L	7.3
cis-1,2-Dichloroethene	MW 41	4/29/2015	mg/L	6.4
cis-1,2-Dichloroethene	MW 41	10/12/2015	mg/L	6.5 / 6.2
cis-1,2-Dichloroethene	MW 42	10/18/2005	mg/L	12
cis-1,2-Dichloroethene	MW 42	1/30/2006	mg/L	10
cis-1,2-Dichloroethene	MW 42	1/30/2006	mg/L	9.7
cis-1,2-Dichloroethene	MW 42	4/17/2006	mg/L	6.5
cis-1,2-Dichloroethene	MW 42	7/18/2006	mg/L	7
cis-1,2-Dichloroethene	MW 42	10/18/2006	mg/L	6.4 J
cis-1,2-Dichloroethene	MW 42	1/23/2007	mg/L	6.2
cis-1,2-Dichloroethene	MW 42	1/23/2007	mg/L	6.2
cis-1,2-Dichloroethene	MW 42	4/18/2007	mg/L	3.7
cis-1,2-Dichloroethene	MW 42	7/10/2007	mg/L	9.2
cis-1,2-Dichloroethene	MW 42	10/18/2007	mg/L	9.8
cis-1,2-Dichloroethene	MW 42	2/15/2008	mg/L	10
cis-1,2-Dichloroethene	MW 42	6/24/2008	mg/L	7.9
cis-1,2-Dichloroethene	MW 42	12/3/2008	mg/L	8.9
cis-1,2-Dichloroethene	MW 42	4/28/2009	mg/L	9.3

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cis-1,2-Dichloroethene	MW 42	12/3/2009	mg/L	8.1
cis-1,2-Dichloroethene	MW 42	10/25/2010	mg/L	6.27
cis-1,2-Dichloroethene	MW 42	4/19/2011	mg/L	6
cis-1,2-Dichloroethene	MW 42	10/4/2011	mg/L	5
cis-1,2-Dichloroethene	MW 42	5/14/2012	mg/L	5.4
cis-1,2-Dichloroethene	MW 42	10/10/2012	mg/L	5.3
cis-1,2-Dichloroethene	MW 42	4/9/2013	mg/L	5.2
cis-1,2-Dichloroethene	MW 42	10/25/2013	mg/L	5.2
cis-1,2-Dichloroethene	MW 42	4/14/2014	mg/L	5.6
cis-1,2-Dichloroethene	MW 42	10/23/2014	mg/L	4.3
cis-1,2-Dichloroethene	MW 42	4/29/2015	mg/L	4.1
cis-1,2-Dichloroethene	MW 42	10/12/2015	mg/L	4.4
cis-1,2-Dichloroethene	MW 46	1/12/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 46	10/19/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 46	10/19/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 46	6/27/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 46	12/16/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 46	10/26/2010	mg/L	0.005 U
cis-1,2-Dichloroethene	MW 46	10/5/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 46	10/17/2012	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 46	10/25/2013	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 46	10/22/2014	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 46	10/9/2015	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 49	1/12/2005	mg/L	0.01
cis-1,2-Dichloroethene	MW 49	10/19/2007	mg/L	0.045
cis-1,2-Dichloroethene	MW 49	2/15/2008	mg/L	0.045
cis-1,2-Dichloroethene	MW 49	6/30/2008	mg/L	0.065
cis-1,2-Dichloroethene	MW 49	12/5/2008	mg/L	0.093
cis-1,2-Dichloroethene	MW 49	4/29/2009	mg/L	0.1
cis-1,2-Dichloroethene	MW 49	12/4/2009	mg/L	0.44
cis-1,2-Dichloroethene	MW 49	10/27/2010	mg/L	0.352
cis-1,2-Dichloroethene	MW 49	4/19/2011	mg/L	0.37
cis-1,2-Dichloroethene	MW 49	10/5/2011	mg/L	0.53
cis-1,2-Dichloroethene	MW 49	5/15/2012	mg/L	0.66
cis-1,2-Dichloroethene	MW 49	10/17/2012	mg/L	0.78
cis-1,2-Dichloroethene	MW 49	4/10/2013	mg/L	0.74
cis-1,2-Dichloroethene	MW 49	10/25/2013	mg/L	0.9
cis-1,2-Dichloroethene	MW 49	4/14/2014	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 49	10/27/2014	mg/L	0.78
cis-1,2-Dichloroethene	MW 49	4/28/2015	mg/L	0.71
cis-1,2-Dichloroethene	MW 49	10/13/2015	mg/L	0.86
cis-1,2-Dichloroethene	MW 51	12/5/2008	mg/L	0.0086 J
cis-1,2-Dichloroethene	MW 51	12/5/2008	mg/L	0.0085 J
cis-1,2-Dichloroethene	MW 51	4/29/2009	mg/L	0.0065 J
cis-1,2-Dichloroethene	MW 51	12/14/2009	mg/L	0.011
cis-1,2-Dichloroethene	MW 51	10/27/2010	mg/L	0.0096 J
cis-1,2-Dichloroethene	MW 51	4/20/2011	mg/L	0.0067 U
cis-1,2-Dichloroethene	MW 51	10/5/2011	mg/L	0.0078 J
cis-1,2-Dichloroethene	MW 51	5/14/2012	mg/L	0.0065

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cis-1,2-Dichloroethene	MW 51	10/12/2012	mg/L	0.0099
cis-1,2-Dichloroethene	MW 51	4/9/2013	mg/L	0.0076 J
cis-1,2-Dichloroethene	MW 51	10/23/2013	mg/L	0.0075
cis-1,2-Dichloroethene	MW 51	4/16/2014	mg/L	0.0071
cis-1,2-Dichloroethene	MW 51	10/21/2014	mg/L	0.0077
cis-1,2-Dichloroethene	MW 51	4/28/2015	mg/L	0.0078 / 0.0077
cis-1,2-Dichloroethene	MW 51	10/9/2015	mg/L	0.0083
cis-1,2-Dichloroethene	MW 56	1/11/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 56	10/19/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 56	10/18/2006	mg/L	0.0024
cis-1,2-Dichloroethene	MW 56	10/18/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 56	6/26/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 56	12/17/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 56	10/28/2010	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 56	10/6/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 56	10/16/2012	mg/L	0.003
cis-1,2-Dichloroethene	MW 56	10/29/2013	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 56	10/29/2014	mg/L	0.00020 J / 0.00021 J
cis-1,2-Dichloroethene	MW 56	10/19/2015	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 57	1/10/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 57	10/19/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 57	2/1/2006	mg/L	0.0014
cis-1,2-Dichloroethene	MW 57	4/18/2006	mg/L	0.0007 J
cis-1,2-Dichloroethene	MW 57	7/18/2006	mg/L	0.004
cis-1,2-Dichloroethene	MW 57	10/17/2006	mg/L	0.0011
cis-1,2-Dichloroethene	MW 57	1/24/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 57	4/16/2007	mg/L	0.00034 J
cis-1,2-Dichloroethene	MW 57	7/10/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 57	10/17/2007	mg/L	0.00014 J
cis-1,2-Dichloroethene	MW 57	6/25/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 57	12/16/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 57	10/28/2010	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 57	10/28/2010	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 57	10/6/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 57	10/16/2012	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 57	10/29/2013	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 57	10/29/2014	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 57	10/19/2015	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 58	1/10/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 58	10/19/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 58	10/17/2006	mg/L	0.0042 J
cis-1,2-Dichloroethene	MW 58	10/17/2007	mg/L	0.0034 U
cis-1,2-Dichloroethene	MW 58	2/18/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 58	6/25/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 58	12/17/2009	mg/L	0.0031 U
cis-1,2-Dichloroethene	MW 58	10/28/2010	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 58	10/6/2011	mg/L	0.008 U
cis-1,2-Dichloroethene	MW 58	10/16/2012	mg/L	0.0057 U
cis-1,2-Dichloroethene	MW 58	10/16/2012	mg/L	0.005 U

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cis-1,2-Dichloroethene	MW 58	10/29/2013	mg/L	0.002 U
cis-1,2-Dichloroethene	MW 58	10/29/2014	mg/L	0.0033 U
cis-1,2-Dichloroethene	MW 58	10/20/2015	mg/L	0.028 / 0.028
cis-1,2-Dichloroethene	MW 61	1/11/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 61	6/24/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 61	12/3/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 61	10/26/2010	mg/L	0.005 U
cis-1,2-Dichloroethene	MW 61	10/26/2010	mg/L	0.005 U
cis-1,2-Dichloroethene	MW 61	10/3/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 61	10/10/2012	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 61	10/23/2013	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 61	10/21/2014	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 61	10/9/2015	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 64	1/11/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 64	10/19/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 64	10/18/2006	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 64	10/19/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 64	2/18/2008	mg/L	0.014
cis-1,2-Dichloroethene	MW 64	2/18/2008	mg/L	0.024
cis-1,2-Dichloroethene	MW 64	6/26/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 64	12/8/2009	mg/L	0.00014 J
cis-1,2-Dichloroethene	MW 64	12/8/2009	mg/L	0.00014 J
cis-1,2-Dichloroethene	MW 64	10/25/2010	mg/L	0.005 U
cis-1,2-Dichloroethene	MW 64	10/3/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 64	10/11/2012	mg/L	0.00063 J
cis-1,2-Dichloroethene	MW 64	10/11/2012	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 64	10/22/2013	mg/L	0.025
cis-1,2-Dichloroethene	MW 64	10/28/2014	mg/L	0.22
cis-1,2-Dichloroethene	MW 64	10/13/2015	mg/L	0.25
cis-1,2-Dichloroethene	MW 65	1/10/2005	mg/L	0.17
cis-1,2-Dichloroethene	MW 65	10/18/2007	mg/L	2.7
cis-1,2-Dichloroethene	MW 65	2/15/2008	mg/L	3
cis-1,2-Dichloroethene	MW 65	6/27/2008	mg/L	0.34
cis-1,2-Dichloroethene	MW 65	12/4/2008	mg/L	1.9
cis-1,2-Dichloroethene	MW 65	4/28/2009	mg/L	0.97
cis-1,2-Dichloroethene	MW 65	12/4/2009	mg/L	1.4
cis-1,2-Dichloroethene	MW 65	10/25/2010	mg/L	2.44
cis-1,2-Dichloroethene	MW 65	10/3/2011	mg/L	0.97
cis-1,2-Dichloroethene	MW 65	10/11/2012	mg/L	0.38
cis-1,2-Dichloroethene	MW 65	10/22/2013	mg/L	0.21
cis-1,2-Dichloroethene	MW 65	10/22/2014	mg/L	0.053 / 0.064
cis-1,2-Dichloroethene	MW 65	10/8/2015	mg/L	0.051
cis-1,2-Dichloroethene	MW 66	1/11/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 66	1/11/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 66	10/18/2005	mg/L	0.0014 U
cis-1,2-Dichloroethene	MW 66	10/18/2006	mg/L	0.001 UJ
cis-1,2-Dichloroethene	MW 66	10/19/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 66	10/19/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 66	2/18/2008	mg/L	0.00012 J

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cis-1,2-Dichloroethene	MW 66	6/26/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 66	12/4/2008	mg/L	0.0007 J
cis-1,2-Dichloroethene	MW 66	4/28/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 66	4/28/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 66	12/8/2009	mg/L	0.0048
cis-1,2-Dichloroethene	MW 66	10/25/2010	mg/L	0.248
cis-1,2-Dichloroethene	MW 66	4/19/2011	mg/L	0.23
cis-1,2-Dichloroethene	MW 66	4/19/2011	mg/L	0.24
cis-1,2-Dichloroethene	MW 66	10/3/2011	mg/L	0.33
cis-1,2-Dichloroethene	MW 66	5/14/2012	mg/L	0.24
cis-1,2-Dichloroethene	MW 66	10/11/2012	mg/L	0.42
cis-1,2-Dichloroethene	MW 66	4/10/2013	mg/L	0.36
cis-1,2-Dichloroethene	MW 66	10/22/2013	mg/L	0.9
cis-1,2-Dichloroethene	MW 66	4/11/2014	mg/L	0.28
cis-1,2-Dichloroethene	MW 66	10/27/2014	mg/L	0.53
cis-1,2-Dichloroethene	MW 66	4/27/2015	mg/L	0.45
cis-1,2-Dichloroethene	MW 66	10/13/2015	mg/L	1
cis-1,2-Dichloroethene	MW 68	1/18/2005	mg/L	14
cis-1,2-Dichloroethene	MW 68	10/19/2005	mg/L	16
cis-1,2-Dichloroethene	MW 68	10/19/2005	mg/L	16
cis-1,2-Dichloroethene	MW 68	1/31/2006	mg/L	13
cis-1,2-Dichloroethene	MW 68	4/18/2006	mg/L	9.9
cis-1,2-Dichloroethene	MW 68	7/19/2006	mg/L	7.5
cis-1,2-Dichloroethene	MW 68	10/19/2006	mg/L	12
cis-1,2-Dichloroethene	MW 68	1/23/2007	mg/L	9.5
cis-1,2-Dichloroethene	MW 68	4/18/2007	mg/L	8.9
cis-1,2-Dichloroethene	MW 68	7/9/2007	mg/L	13
cis-1,2-Dichloroethene	MW 68	10/16/2007	mg/L	14
cis-1,2-Dichloroethene	MW 68	2/19/2008	mg/L	14
cis-1,2-Dichloroethene	MW 68	6/27/2008	mg/L	13
cis-1,2-Dichloroethene	MW 68	12/5/2008	mg/L	10
cis-1,2-Dichloroethene	MW 68	4/29/2009	mg/L	11
cis-1,2-Dichloroethene	MW 68	12/16/2009	mg/L	8.4
cis-1,2-Dichloroethene	MW 68	12/16/2009	mg/L	8.7
cis-1,2-Dichloroethene	MW 68	10/26/2010	mg/L	7.52
cis-1,2-Dichloroethene	MW 68	4/18/2011	mg/L	7
cis-1,2-Dichloroethene	MW 68	10/4/2011	mg/L	6.7
cis-1,2-Dichloroethene	MW 68	10/4/2011	mg/L	6.6
cis-1,2-Dichloroethene	MW 68	5/14/2012	mg/L	6.7
cis-1,2-Dichloroethene	MW 68	10/12/2012	mg/L	6.1
cis-1,2-Dichloroethene	MW 68	4/10/2013	mg/L	6.4
cis-1,2-Dichloroethene	MW 68	4/10/2013	mg/L	6.1
cis-1,2-Dichloroethene	MW 68	10/23/2013	mg/L	7
cis-1,2-Dichloroethene	MW 68	11/14/2013	mg/L	6.5 / 6.7
cis-1,2-Dichloroethene	MW 68	4/10/2014	mg/L	6.3
cis-1,2-Dichloroethene	MW 68	10/23/2014	mg/L	5.5
cis-1,2-Dichloroethene	MW 68	4/28/2015	mg/L	5.8 / 5.9
cis-1,2-Dichloroethene	MW 68	10/13/2015	mg/L	5.1 / 4.9
cis-1,2-Dichloroethene	MW 75	1/14/2005	mg/L	0.001 U

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cis-1,2-Dichloroethene	MW 75	10/19/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 75	10/19/2006	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 75	10/16/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 75	6/30/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 75	10/27/2010	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 75	10/5/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 75	10/12/2012	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 75	10/23/2013	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 75	10/21/2014	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 76	1/14/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 76	10/20/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 76	10/19/2006	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 76	10/16/2007	mg/L	0.00019 J
cis-1,2-Dichloroethene	MW 76	10/27/2010	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 76	10/5/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 76	10/5/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 76	10/12/2012	mg/L	0.00099 J
cis-1,2-Dichloroethene	MW 76	10/23/2013	mg/L	0.00036 J
cis-1,2-Dichloroethene	MW 76	10/23/2013	mg/L	0.00043 J
cis-1,2-Dichloroethene	MW 76	10/21/2014	mg/L	0.00043 J
cis-1,2-Dichloroethene	MW 79	1/13/2005	mg/L	0.79
cis-1,2-Dichloroethene	MW 79	10/15/2007	mg/L	0.99
cis-1,2-Dichloroethene	MW 79	12/5/2008	mg/L	1
cis-1,2-Dichloroethene	MW 79	4/29/2009	mg/L	1.1
cis-1,2-Dichloroethene	MW 79	12/14/2009	mg/L	1.5
cis-1,2-Dichloroethene	MW 79	10/27/2010	mg/L	1.22
cis-1,2-Dichloroethene	MW 79	4/20/2011	mg/L	1.2
cis-1,2-Dichloroethene	MW 79	10/4/2011	mg/L	1.5
cis-1,2-Dichloroethene	MW 79	5/15/2012	mg/L	1.4
cis-1,2-Dichloroethene	MW 79	10/15/2012	mg/L	2.1
cis-1,2-Dichloroethene	MW 79	10/15/2012	mg/L	2.2
cis-1,2-Dichloroethene	MW 79	4/9/2013	mg/L	1.9
cis-1,2-Dichloroethene	MW 79	10/28/2013	mg/L	2.6
cis-1,2-Dichloroethene	MW 79	4/15/2014	mg/L	2.9
cis-1,2-Dichloroethene	MW 79	10/28/2014	mg/L	2.4 / 2.5
cis-1,2-Dichloroethene	MW 79	4/29/2015	mg/L	2.4
cis-1,2-Dichloroethene	MW 79	10/13/2015	mg/L	2
cis-1,2-Dichloroethene	MW 80	3/9/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 80	3/9/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 80	10/18/2005	mg/L	0.0083 U
cis-1,2-Dichloroethene	MW 80	10/18/2006	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 80	10/17/2007	mg/L	0.00013 J
cis-1,2-Dichloroethene	MW 80	6/27/2008	mg/L	0.005 U
cis-1,2-Dichloroethene	MW 80	6/27/2008	mg/L	0.005 U
cis-1,2-Dichloroethene	MW 80	12/8/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 80	10/25/2010	mg/L	0.005 U
cis-1,2-Dichloroethene	MW 80	10/3/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 80	10/11/2012	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 80	10/22/2013	mg/L	0.0017 U

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cis-1,2-Dichloroethene	MW 80	10/24/2014	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 80	10/8/2015	mg/L	0.0012 J
cis-1,2-Dichloroethene	MW 81	3/9/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 81	3/30/2005	mg/L	0.001 UJ
cis-1,2-Dichloroethene	MW 81	10/19/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 81	10/18/2006	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 81	10/18/2006	mg/L	0.001 UJ
cis-1,2-Dichloroethene	MW 81	10/18/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 81	2/15/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 81	6/26/2008	mg/L	0.00024 J
cis-1,2-Dichloroethene	MW 81	12/4/2009	mg/L	0.0006 J
cis-1,2-Dichloroethene	MW 81	10/25/2010	mg/L	0.005 U
cis-1,2-Dichloroethene	MW 81	10/3/2011	mg/L	0.019
cis-1,2-Dichloroethene	MW 81	10/11/2012	mg/L	0.039
cis-1,2-Dichloroethene	MW 81	10/22/2013	mg/L	0.15
cis-1,2-Dichloroethene	MW 81	10/22/2014	mg/L	0.17
cis-1,2-Dichloroethene	MW 81	10/8/2015	mg/L	0.19
cis-1,2-Dichloroethene	MW 82	3/9/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 82	10/20/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 82	10/19/2006	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 82	10/16/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 82	6/27/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 82	12/15/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 82	10/27/2010	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 82	10/4/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 82	10/23/2013	mg/L	0.0022
cis-1,2-Dichloroethene	MW 82	10/24/2014	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 82	10/12/2015	mg/L	0.00041 J
cis-1,2-Dichloroethene	MW 83	3/9/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 83	10/18/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 83	10/18/2006	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 83	10/18/2007	mg/L	0.00041 J
cis-1,2-Dichloroethene	MW 83	6/27/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 83	12/8/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 83	10/26/2010	mg/L	0.005 U
cis-1,2-Dichloroethene	MW 83	10/4/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 83	10/10/2012	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 83	10/24/2013	mg/L	0.00032 J
cis-1,2-Dichloroethene	MW 83	10/22/2014	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 83	10/9/2015	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 85	2/19/2008	mg/L	0.017 U
cis-1,2-Dichloroethene	MW 85	6/25/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 85	12/4/2008	mg/L	0.031 U
cis-1,2-Dichloroethene	MW 85	4/30/2009	mg/L	0.025 U
cis-1,2-Dichloroethene	MW 85	12/17/2009	mg/L	0.017 U
cis-1,2-Dichloroethene	MW 85	10/28/2010	mg/L	0.693
cis-1,2-Dichloroethene	MW 85	4/20/2011	mg/L	0.18
cis-1,2-Dichloroethene	MW 85	10/6/2011	mg/L	0.59
cis-1,2-Dichloroethene	MW 85	5/16/2012	mg/L	0.66

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cis-1,2-Dichloroethene	MW 85	10/16/2012	mg/L	4.6
cis-1,2-Dichloroethene	MW 85	4/12/2013	mg/L	1.9
cis-1,2-Dichloroethene	MW 85	10/29/2013	mg/L	4.6
cis-1,2-Dichloroethene	MW 85	4/16/2014	mg/L	7.4
cis-1,2-Dichloroethene	MW 85	10/29/2014	mg/L	7.5
cis-1,2-Dichloroethene	MW 85	4/27/2015	mg/L	9.5
cis-1,2-Dichloroethene	MW 85	10/19/2015	mg/L	10
cis-1,2-Dichloroethene	MW 86	10/28/2010	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 86	10/28/2010	mg/L	0.005 U
cis-1,2-Dichloroethene	MW 86	10/4/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 86	10/11/2012	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 86	10/22/2013	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 86	10/22/2014	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 86	10/8/2015	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 88	10/29/2010	mg/L	0.005 U
cis-1,2-Dichloroethene	MW 88	10/3/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 88	10/11/2012	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 88	10/22/2013	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 88	10/22/2014	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 88	10/8/2015	mg/L	0.001 U / 0.001 U
cis-1,2-Dichloroethene	MW 89-11	12/8/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 89-11	12/8/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 89-11	10/17/2012	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 89-11	4/12/2013	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 89-11	4/12/2013	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 89-11	10/28/2013	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 89-11	4/16/2014	mg/L	0.001 U
cis-1,2-Dichloroethene	MW 89-11	10/28/2014	mg/L	0.00055 J
cis-1,2-Dichloroethene	MW 89-11	4/28/2015	mg/L	0.0003 J
cis-1,2-Dichloroethene	MW 89-11	10/15/2015	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	1/11/2005	mg/L	0.013
cis-1,2-Dichloroethene	Pond Intake	4/19/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	10/17/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	2/1/2006	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	4/17/2006	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	7/18/2006	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	10/17/2006	mg/L	0.001 UJ
cis-1,2-Dichloroethene	Pond Intake	1/22/2007	mg/L	0.066
cis-1,2-Dichloroethene	Pond Intake	4/16/2007	mg/L	0.0025
cis-1,2-Dichloroethene	Pond Intake	5/9/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	6/18/2007	mg/L	0.00019 J
cis-1,2-Dichloroethene	Pond Intake	7/10/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	8/15/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	9/27/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	10/17/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	11/9/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	12/4/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	2/18/2008	mg/L	0.00061 J
cis-1,2-Dichloroethene	Pond Intake	6/25/2008	mg/L	0.032

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cis-1,2-Dichloroethene	Pond Intake	9/23/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	12/4/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	3/4/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	3/4/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	4/30/2009	mg/L	0.0034
cis-1,2-Dichloroethene	Pond Intake	7/30/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	7/30/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	12/17/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	8/4/2010	mg/L	0.0058
cis-1,2-Dichloroethene	Pond Intake	10/28/2010	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	4/20/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	7/28/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	10/6/2011	mg/L	0.004
cis-1,2-Dichloroethene	Pond Intake	10/6/2011	mg/L	0.004
cis-1,2-Dichloroethene	Pond Intake	5/16/2012	mg/L	0.0063
cis-1,2-Dichloroethene	Pond Intake	8/2/2012	mg/L	0.00072 J
cis-1,2-Dichloroethene	Pond Intake	10/16/2012	mg/L	0.0026
cis-1,2-Dichloroethene	Pond Intake	4/12/2013	mg/L	0.0066
cis-1,2-Dichloroethene	Pond Intake	7/17/2013	mg/L	0.017
cis-1,2-Dichloroethene	Pond Intake	10/29/2013	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond Intake	4/16/2014	mg/L	0.018
cis-1,2-Dichloroethene	Pond Intake	7/17/2014	mg/L	0.029 / 0.027
cis-1,2-Dichloroethene	Pond Intake	10/29/2014	mg/L	0.022
cis-1,2-Dichloroethene	Pond Intake	4/27/2015	mg/L	0.033
cis-1,2-Dichloroethene	Pond Intake	7/10/2015	mg/L	0.1/0.11
cis-1,2-Dichloroethene	Pond Intake	10/20/2015	mg/L	0.037
cis-1,2-Dichloroethene	Pond North	1/11/2005	mg/L	0.032
cis-1,2-Dichloroethene	Pond North	4/19/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	10/17/2005	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	2/1/2006	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	4/17/2006	mg/L	0.0017 U
cis-1,2-Dichloroethene	Pond North	7/18/2006	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	10/17/2006	mg/L	0.001 UJ
cis-1,2-Dichloroethene	Pond North	1/22/2007	mg/L	0.081
cis-1,2-Dichloroethene	Pond North	4/16/2007	mg/L	0.21 J
cis-1,2-Dichloroethene	Pond North	5/9/2007	mg/L	0.00018 J
cis-1,2-Dichloroethene	Pond North	6/18/2007	mg/L	0.00016 J
cis-1,2-Dichloroethene	Pond North	7/10/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	8/15/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	9/27/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	10/17/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	11/9/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	12/4/2007	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	2/18/2008	mg/L	0.00062 J
cis-1,2-Dichloroethene	Pond North	6/25/2008	mg/L	0.03
cis-1,2-Dichloroethene	Pond North	9/23/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	9/23/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	12/4/2008	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	3/4/2009	mg/L	0.001 U

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cis-1,2-Dichloroethene	Pond North	4/30/2009	mg/L	0.0065
cis-1,2-Dichloroethene	Pond North	7/30/2009	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	12/17/2009	mg/L	0.011 J
cis-1,2-Dichloroethene	Pond North	8/4/2010	mg/L	0.005 U
cis-1,2-Dichloroethene	Pond North	8/4/2010	mg/L	0.005 U
cis-1,2-Dichloroethene	Pond North	10/28/2010	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	4/20/2011	mg/L	0.026
cis-1,2-Dichloroethene	Pond North	7/28/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	7/28/2011	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	10/6/2011	mg/L	0.0089
cis-1,2-Dichloroethene	Pond North	5/16/2012	mg/L	0.022
cis-1,2-Dichloroethene	Pond North	5/16/2012	mg/L	0.019
cis-1,2-Dichloroethene	Pond North	8/2/2012	mg/L	0.0015
cis-1,2-Dichloroethene	Pond North	8/2/2012	mg/L	0.0014
cis-1,2-Dichloroethene	Pond North	10/16/2012	mg/L	0.035
cis-1,2-Dichloroethene	Pond North	4/12/2013	mg/L	0.013
cis-1,2-Dichloroethene	Pond North	7/17/2013	mg/L	0.032
cis-1,2-Dichloroethene	Pond North	7/17/2013	mg/L	0.032
cis-1,2-Dichloroethene	Pond North	10/29/2013	mg/L	0.001 U
cis-1,2-Dichloroethene	Pond North	4/16/2014	mg/L	0.11
cis-1,2-Dichloroethene	Pond North	7/17/2014	mg/L	0.25
cis-1,2-Dichloroethene	Pond North	10/29/2014	mg/L	0.31
cis-1,2-Dichloroethene	Pond North	4/27/2015	mg/L	0.26
cis-1,2-Dichloroethene	Pond North	7/10/2015	mg/L	0.093
cis-1,2-Dichloroethene	Pond North	10/20/2015	mg/L	0.035
Vinyl chloride	MW-2	5/9/2007	mg/L	0.001 U
Vinyl chloride	MW-2	7/10/2007	mg/L	0.001 U
Vinyl chloride	MW-2	10/17/2007	mg/L	0.001 U
Vinyl chloride	MW-2	6/25/2008	mg/L	0.001 U
Vinyl chloride	MW-2	12/17/2009	mg/L	0.001 U
Vinyl chloride	MW-2	10/28/2010	mg/L	0.001 U
Vinyl chloride	MW-2	10/6/2011	mg/L	0.001 U
Vinyl chloride	MW-2	10/16/2012	mg/L	0.001 U
Vinyl chloride	MW-2	10/29/2013	mg/L	0.001 U
Vinyl chloride	MW-2	10/29/2013	mg/L	0.001 U
Vinyl chloride	MW-2	10/29/2014	mg/L	0.001 U
Vinyl chloride	MW-2	10/19/2015	mg/L	0.001 U
Vinyl chloride	MW 3	2/1/2005	mg/L	0.53
Vinyl chloride	MW 3	2/1/2005	mg/L	0.56
Vinyl chloride	MW 3	10/18/2005	mg/L	0.00027 J
Vinyl chloride	MW 3	1/31/2006	mg/L	0.5 U
Vinyl chloride	MW 3	4/18/2006	mg/L	0.83 U
Vinyl chloride	MW 3	4/18/2006	mg/L	0.83 U
Vinyl chloride	MW 3	7/19/2006	mg/L	0.63 U
Vinyl chloride	MW 3	7/19/2006	mg/L	0.63 U
Vinyl chloride	MW 3	10/16/2006	mg/L	0.069 J
Vinyl chloride	MW 3	1/24/2007	mg/L	0.12 J
Vinyl chloride	MW 3	4/17/2007	mg/L	0.16

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Vinyl chloride	MW 3	4/17/2007	mg/L	0.16
Vinyl chloride	MW 3	7/11/2007	mg/L	1 U
Vinyl chloride	MW 3	10/16/2007	mg/L	0.65
Vinyl chloride	MW 3	2/18/2008	mg/L	2
Vinyl chloride	MW 3	6/30/2008	mg/L	0.95 J
Vinyl chloride	MW 3	6/30/2008	mg/L	1 J
Vinyl chloride	MW 3	12/4/2008	mg/L	0.2 J
Vinyl chloride	MW 3	4/30/2009	mg/L	0.39 J
Vinyl chloride	MW 3	12/15/2009	mg/L	0.34
Vinyl chloride	MW 3	12/15/2009	mg/L	0.4
Vinyl chloride	MW 3	10/28/2010	mg/L	0.103
Vinyl chloride	MW 3	10/28/2010	mg/L	0.0785
Vinyl chloride	MW 3	4/18/2011	mg/L	0.35 J
Vinyl chloride	MW 3	10/5/2011	mg/L	0.12 J
Vinyl chloride	MW 3	5/16/2012	mg/L	0.33 U
Vinyl chloride	MW 3	10/15/2012	mg/L	0.29
Vinyl chloride	MW 3	4/9/2013	mg/L	0.5 U
Vinyl chloride	MW 3	10/24/2013	mg/L	0.077 J
Vinyl chloride	MW 3	10/24/2013	mg/L	0.082 J
Vinyl chloride	MW 3	4/15/2014	mg/L	0.33 U
Vinyl chloride	MW 3	10/23/2014	mg/L	0.055 J
Vinyl chloride	MW 3	4/28/2015	mg/L	0.33 U
Vinyl chloride	MW 3	10/14/2015	mg/L	0.062 J
Vinyl chloride	MW-4	1/11/2005	mg/L	0.99
Vinyl chloride	MW-4	10/19/2005	mg/L	2.1
Vinyl chloride	MW-4	2/1/2006	mg/L	1.7
Vinyl chloride	MW-4	4/18/2006	mg/L	0.52
Vinyl chloride	MW-4	7/18/2006	mg/L	0.9
Vinyl chloride	MW-4	10/17/2006	mg/L	1.3
Vinyl chloride	MW-4	1/24/2007	mg/L	0.64
Vinyl chloride	MW-4	4/16/2007	mg/L	0.98
Vinyl chloride	MW-4	7/10/2007	mg/L	1.1
Vinyl chloride	MW-4	7/10/2007	mg/L	1.1
Vinyl chloride	MW-4	10/17/2007	mg/L	0.84
Vinyl chloride	MW-4	10/17/2007	mg/L	0.98
Vinyl chloride	MW-4	2/18/2008	mg/L	1.6
Vinyl chloride	MW-4	6/25/2008	mg/L	0.84
Vinyl chloride	MW-4	6/25/2008	mg/L	1.2
Vinyl chloride	MW-4	12/3/2008	mg/L	1.2
Vinyl chloride	MW-4	4/30/2009	mg/L	0.84
Vinyl chloride	MW-4	4/30/2009	mg/L	0.83
Vinyl chloride	MW-4	12/16/2009	mg/L	1.2
Vinyl chloride	MW-4	12/16/2009	mg/L	0.97
Vinyl chloride	MW-4	10/28/2010	mg/L	0.655
Vinyl chloride	MW-4	4/20/2011	mg/L	0.77
Vinyl chloride	MW-4	4/20/2011	mg/L	0.73
Vinyl chloride	MW-4	10/6/2011	mg/L	0.72
Vinyl chloride	MW-4	5/16/2012	mg/L	0.71
Vinyl chloride	MW-4	10/16/2012	mg/L	0.38 J

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Vinyl chloride	MW-4	4/12/2013	mg/L	0.44
Vinyl chloride	MW-4	10/29/2013	mg/L	0.43
Vinyl chloride	MW-4	4/16/2014	mg/L	0.57 / 0.58
Vinyl chloride	MW-4	10/29/2014	mg/L	0.41 J
Vinyl chloride	MW-4	4/27/2015	mg/L	0.42 J
Vinyl chloride	MW-4	10/19/2015	mg/L	0.47
Vinyl chloride	MW 8	2/2/2005	mg/L	6.9
Vinyl chloride	MW 8	10/17/2005	mg/L	1.3
Vinyl chloride	MW 8	10/17/2005	mg/L	1.3
Vinyl chloride	MW 8	2/1/2006	mg/L	2.1
Vinyl chloride	MW 8	4/17/2006	mg/L	1.7
Vinyl chloride	MW 8	7/18/2006	mg/L	1.7
Vinyl chloride	MW 8	10/16/2006	mg/L	1.4
Vinyl chloride	MW 8	1/23/2007	mg/L	1.7
Vinyl chloride	MW 8	4/16/2007	mg/L	2.1
Vinyl chloride	MW 8	7/10/2007	mg/L	2.3
Vinyl chloride	MW 8	10/15/2007	mg/L	2.4
Vinyl chloride	MW 8	6/27/2008	mg/L	5.5
Vinyl chloride	MW 8	12/15/2009	mg/L	0.027
Vinyl chloride	MW 8	10/27/2010	mg/L	1.73
Vinyl chloride	MW 8	4/18/2011	mg/L	2.4
Vinyl chloride	MW 8	10/5/2011	mg/L	1.7
Vinyl chloride	MW 8	5/15/2012	mg/L	1.6
Vinyl chloride	MW 8	5/15/2012	mg/L	1.5
Vinyl chloride	MW 8	10/15/2012	mg/L	1.4
Vinyl chloride	MW 8	4/9/2013	mg/L	1.5
Vinyl chloride	MW 8	10/24/2013	mg/L	1.4
Vinyl chloride	MW 8	4/15/2014	mg/L	2.8
Vinyl chloride	MW 8	10/23/2014	mg/L	1.7
Vinyl chloride	MW 8	4/28/2015	mg/L	1.9
Vinyl chloride	MW 8	10/14/2015	mg/L	1.5
Vinyl chloride	MW 12	2/2/2005	mg/L	0.01 U
Vinyl chloride	MW 12	10/19/2005	mg/L	0.0014 U / 0.0014 U
Vinyl chloride	MW 12	1/31/2006	mg/L	0.05 U
Vinyl chloride	MW 12	4/18/2006	mg/L	0.031 U
Vinyl chloride	MW 12	7/18/2006	mg/L	0.025 U / 0.025 U
Vinyl chloride	MW 12	10/19/2006	mg/L	0.042 U
Vinyl chloride	MW 12	1/22/2007	mg/L	0.025 U
Vinyl chloride	MW 12	4/18/2007	mg/L	0.017 U
Vinyl chloride	MW 12	7/11/2007	mg/L	0.00072 J
Vinyl chloride	MW 12	10/19/2007	mg/L	0.039 U
Vinyl chloride	MW 12	6/27/2008	mg/L	0.031 U
Vinyl chloride	MW 12	12/5/2008	mg/L	0.025 U
Vinyl chloride	MW 12	4/29/2009	mg/L	0.025 U
Vinyl chloride	MW 12	12/9/2009	mg/L	0.013 U
Vinyl chloride	MW 12	10/26/2010	mg/L	0.002 U
Vinyl chloride	MW 12	4/20/2011	mg/L	0.011 U
Vinyl chloride	MW 12	10/5/2011	mg/L	0.011 U
Vinyl chloride	MW 12	5/15/2012	mg/L	0.0091 U

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Analyte	Location	Date	Unit	Result
Vinyl chloride	MW 12	10/11/2012	mg/L	0.0067 U
Vinyl chloride	MW 12	4/9/2013	mg/L	0.01 U
Vinyl chloride	MW 12	10/23/2013	mg/L	0.0077 U
Vinyl chloride	MW 12	4/11/2014	mg/L	0.0057 U
Vinyl chloride	MW 12	10/24/2014	mg/L	0.0057 U / 0.0050 U
Vinyl chloride	MW 12	4/27/2015	mg/L	0.0057 U
Vinyl chloride	MW 12	10/9/2015	mg/L	0.005 U
Vinyl chloride	MW 14	2/2/2005	mg/L	0.41
Vinyl chloride	MW 14	10/17/2005	mg/L	0.4
Vinyl chloride	MW 14	2/1/2006	mg/L	0.37 J
Vinyl chloride	MW 14	4/18/2006	mg/L	0.22 J
Vinyl chloride	MW 14	7/19/2006	mg/L	0.26
Vinyl chloride	MW 14	10/18/2006	mg/L	0.24 J
Vinyl chloride	MW 14	1/24/2007	mg/L	0.31
Vinyl chloride	MW 14	4/17/2007	mg/L	0.39
Vinyl chloride	MW 14	7/9/2007	mg/L	0.38
Vinyl chloride	MW 14	10/16/2007	mg/L	0.51
Vinyl chloride	MW 14	6/30/2008	mg/L	0.49 J
Vinyl chloride	MW 14	12/5/2008	mg/L	0.29 J
Vinyl chloride	MW 14	4/29/2009	mg/L	0.44
Vinyl chloride	MW 14	12/15/2009	mg/L	0.0087 J
Vinyl chloride	MW 14	10/27/2010	mg/L	0.228
Vinyl chloride	MW 14	4/18/2011	mg/L	0.23
Vinyl chloride	MW 14	10/5/2011	mg/L	0.19 J
Vinyl chloride	MW 14	5/15/2012	mg/L	0.2
Vinyl chloride	MW 14	10/15/2012	mg/L	0.2
Vinyl chloride	MW 14	4/9/2013	mg/L	0.18
Vinyl chloride	MW 14	4/9/2013	mg/L	0.19
Vinyl chloride	MW 14	10/25/2013	mg/L	0.22 J
Vinyl chloride	MW 14	10/25/2013	mg/L	0.25
Vinyl chloride	MW 14	4/15/2014	mg/L	0.25 / 0.23
Vinyl chloride	MW 14	10/24/2014	mg/L	0.14 J
Vinyl chloride	MW 14	4/29/2015	mg/L	0.15 J / 0.15 J
Vinyl chloride	MW 14	10/12/2015	mg/L	0.14 J
Vinyl chloride	MW 28	10/18/2005	mg/L	0.1
Vinyl chloride	MW 28	10/19/2006	mg/L	0.071
Vinyl chloride	MW 28	10/18/2007	mg/L	0.093
Vinyl chloride	MW 28	6/24/2008	mg/L	0.077
Vinyl chloride	MW 28	12/4/2008	mg/L	0.057
Vinyl chloride	MW 28	4/29/2009	mg/L	0.1
Vinyl chloride	MW 28	12/4/2009	mg/L	0.17
Vinyl chloride	MW 28	10/26/2010	mg/L	0.0822
Vinyl chloride	MW 28	4/19/2011	mg/L	0.062
Vinyl chloride	MW 28	10/3/2011	mg/L	0.078
Vinyl chloride	MW 28	5/14/2012	mg/L	0.089
Vinyl chloride	MW 28	10/10/2012	mg/L	0.093
Vinyl chloride	MW 28	4/10/2013	mg/L	0.17
Vinyl chloride	MW 28	10/23/2013	mg/L	0.14
Vinyl chloride	MW 28	4/15/2014	mg/L	0.22 / 0.21

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Analyte	Location	Date	Unit	Result
Vinyl chloride	MW 28	10/27/2014	mg/L	0.14
Vinyl chloride	MW 28	4/29/2015	mg/L	0.13
Vinyl chloride	MW 28	10/12/2015	mg/L	0.21
Vinyl chloride	MW 31R	10/18/2005	mg/L	13
Vinyl chloride	MW 31R	1/31/2006	mg/L	6
Vinyl chloride	MW 31R	4/19/2006	mg/L	2.8
Vinyl chloride	MW 31R	7/19/2006	mg/L	9.8
Vinyl chloride	MW 31R	10/17/2006	mg/L	7.6
Vinyl chloride	MW 31R	10/17/2006	mg/L	7.2
Vinyl chloride	MW 31R	1/23/2007	mg/L	5.9
Vinyl chloride	MW 31R	1/23/2007	mg/L	6.2
Vinyl chloride	MW 31R	4/17/2007	mg/L	2.4
Vinyl chloride	MW 31R	7/11/2007	mg/L	6.6
Vinyl chloride	MW 31R	10/17/2007	mg/L	6.2
Vinyl chloride	MW 31R	2/14/2008	mg/L	5
Vinyl chloride	MW 31R	2/14/2008	mg/L	5.3
Vinyl chloride	MW 31R	12/4/2008	mg/L	3.2
Vinyl chloride	MW 31R	4/29/2009	mg/L	1.5
Vinyl chloride	MW 31R	12/15/2009	mg/L	0.7
Vinyl chloride	MW 31R	10/28/2010	mg/L	1.57
Vinyl chloride	MW 31R	4/18/2011	mg/L	0.64
Vinyl chloride	MW 31R	10/4/2011	mg/L	1.2
Vinyl chloride	MW 31R	5/15/2012	mg/L	2.3
Vinyl chloride	MW 31R	10/15/2012	mg/L	1.3
Vinyl chloride	MW 31R	4/9/2013	mg/L	1.3
Vinyl chloride	MW 31R	10/24/2013	mg/L	1.6
Vinyl chloride	MW 31R	4/15/2014	mg/L	1.1
Vinyl chloride	MW 31R	10/27/2014	mg/L	1
Vinyl chloride	MW 31R	4/28/2015	mg/L	0.63
Vinyl chloride	MW 31R	10/14/2015	mg/L	1.7
Vinyl chloride	MW 37	1/18/2005	mg/L	0.001 U
Vinyl chloride	MW 37	1/18/2005	mg/L	0.001 U
Vinyl chloride	MW 37	10/17/2007	mg/L	0.001 U
Vinyl chloride	MW 37	6/26/2008	mg/L	0.001 U
Vinyl chloride	MW 37	12/16/2009	mg/L	0.001 U
Vinyl chloride	MW 37	10/27/2010	mg/L	0.001 U
Vinyl chloride	MW 37	10/5/2011	mg/L	0.001 U
Vinyl chloride	MW 37	10/17/2012	mg/L	0.001 U
Vinyl chloride	MW 37	10/17/2012	mg/L	0.001 U
Vinyl chloride	MW 37	10/25/2013	mg/L	0.001 U
Vinyl chloride	MW 37	10/22/2014	mg/L	0.001 U
Vinyl chloride	MW 37	10/9/2015	mg/L	0.001 U
Vinyl chloride	MW 40	1/12/2005	mg/L	0.49
Vinyl chloride	MW 40	10/18/2005	mg/L	1.4
Vinyl chloride	MW 40	1/30/2006	mg/L	0.76
Vinyl chloride	MW 40	4/17/2006	mg/L	0.43 J
Vinyl chloride	MW 40	7/19/2006	mg/L	1
Vinyl chloride	MW 40	10/18/2006	mg/L	0.84
Vinyl chloride	MW 40	1/23/2007	mg/L	1.1

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Vinyl chloride	MW 40	4/18/2007	mg/L	0.89
Vinyl chloride	MW 40	7/10/2007	mg/L	0.97
Vinyl chloride	MW 40	10/18/2007	mg/L	1.3
Vinyl chloride	MW 40	2/15/2008	mg/L	2.1
Vinyl chloride	MW 40	6/26/2008	mg/L	1.2
Vinyl chloride	MW 40	12/3/2008	mg/L	1.5
Vinyl chloride	MW 40	12/3/2008	mg/L	1.7
Vinyl chloride	MW 40	4/30/2009	mg/L	2.1
Vinyl chloride	MW 40	12/9/2009	mg/L	2.1
Vinyl chloride	MW 40	10/26/2010	mg/L	1.18
Vinyl chloride	MW 40	4/19/2011	mg/L	0.99
Vinyl chloride	MW 40	10/4/2011	mg/L	0.99
Vinyl chloride	MW 40	5/14/2012	mg/L	0.94
Vinyl chloride	MW 40	10/10/2012	mg/L	0.65
Vinyl chloride	MW 40	4/9/2013	mg/L	0.99
Vinyl chloride	MW 40	10/24/2013	mg/L	1.2
Vinyl chloride	MW 40	4/14/2014	mg/L	1.1
Vinyl chloride	MW 40	10/27/2014	mg/L	0.5
Vinyl chloride	MW 40	4/28/2015	mg/L	0.43
Vinyl chloride	MW 40	10/13/2015	mg/L	0.44
Vinyl chloride	MW 41	10/17/2005	mg/L	0.14 J
Vinyl chloride	MW 41	1/30/2006	mg/L	0.28 J
Vinyl chloride	MW 41	4/17/2006	mg/L	0.14 J
Vinyl chloride	MW 41	4/17/2006	mg/L	0.13 J
Vinyl chloride	MW 41	7/18/2006	mg/L	0.26 J
Vinyl chloride	MW 41	10/18/2006	mg/L	0.19 J
Vinyl chloride	MW 41	1/23/2007	mg/L	0.23 J
Vinyl chloride	MW 41	4/18/2007	mg/L	0.29
Vinyl chloride	MW 41	4/18/2007	mg/L	0.27
Vinyl chloride	MW 41	7/10/2007	mg/L	0.33 J
Vinyl chloride	MW 41	10/18/2007	mg/L	0.4 J
Vinyl chloride	MW 41	2/15/2008	mg/L	0.38 J
Vinyl chloride	MW 41	6/24/2008	mg/L	0.22 J
Vinyl chloride	MW 41	12/3/2008	mg/L	0.36 J
Vinyl chloride	MW 41	4/28/2009	mg/L	0.4 J
Vinyl chloride	MW 41	12/3/2009	mg/L	0.39
Vinyl chloride	MW 41	10/25/2010	mg/L	0.256
Vinyl chloride	MW 41	4/19/2011	mg/L	0.3
Vinyl chloride	MW 41	10/4/2011	mg/L	0.51
Vinyl chloride	MW 41	5/14/2012	mg/L	0.61
Vinyl chloride	MW 41	10/10/2012	mg/L	0.66
Vinyl chloride	MW 41	4/9/2013	mg/L	0.61
Vinyl chloride	MW 41	10/25/2013	mg/L	0.55
Vinyl chloride	MW 41	4/14/2014	mg/L	0.73
Vinyl chloride	MW 41	10/23/2014	mg/L	0.54 J
Vinyl chloride	MW 41	4/29/2015	mg/L	0.46
Vinyl chloride	MW 41	10/12/2015	mg/L	0.39 / 0.39
Vinyl chloride	MW 42	10/18/2005	mg/L	0.25 J
Vinyl chloride	MW 42	1/30/2006	mg/L	0.15 J

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Analyte	Location	Date	Unit	Result
Vinyl chloride	MW 42	1/30/2006	mg/L	0.18 J
Vinyl chloride	MW 42	4/17/2006	mg/L	0.089 J
Vinyl chloride	MW 42	7/18/2006	mg/L	0.13 J
Vinyl chloride	MW 42	10/18/2006	mg/L	0.084 J
Vinyl chloride	MW 42	1/23/2007	mg/L	0.5 U
Vinyl chloride	MW 42	1/23/2007	mg/L	0.5 U
Vinyl chloride	MW 42	4/18/2007	mg/L	0.12
Vinyl chloride	MW 42	7/10/2007	mg/L	0.13 J
Vinyl chloride	MW 42	10/18/2007	mg/L	0.11 J
Vinyl chloride	MW 42	2/15/2008	mg/L	0.13 J
Vinyl chloride	MW 42	6/24/2008	mg/L	0.13 J
Vinyl chloride	MW 42	12/3/2008	mg/L	0.18 J
Vinyl chloride	MW 42	4/28/2009	mg/L	0.21 J
Vinyl chloride	MW 42	12/3/2009	mg/L	0.2 J
Vinyl chloride	MW 42	10/25/2010	mg/L	0.128
Vinyl chloride	MW 42	4/19/2011	mg/L	0.17
Vinyl chloride	MW 42	10/4/2011	mg/L	0.13 J
Vinyl chloride	MW 42	5/14/2012	mg/L	0.11 J
Vinyl chloride	MW 42	10/10/2012	mg/L	0.1 J
Vinyl chloride	MW 42	4/9/2013	mg/L	0.14 J
Vinyl chloride	MW 42	10/25/2013	mg/L	0.12 J
Vinyl chloride	MW 42	4/14/2014	mg/L	0.18
Vinyl chloride	MW 42	10/23/2014	mg/L	0.12 J
Vinyl chloride	MW 42	4/29/2015	mg/L	0.13 J
Vinyl chloride	MW 42	10/12/2015	mg/L	0.14 J
Vinyl chloride	MW 46	1/12/2005	mg/L	0.001 U
Vinyl chloride	MW 46	10/19/2007	mg/L	0.001 U
Vinyl chloride	MW 46	10/19/2007	mg/L	0.001 U
Vinyl chloride	MW 46	6/27/2008	mg/L	0.001 U
Vinyl chloride	MW 46	12/16/2009	mg/L	0.001 U
Vinyl chloride	MW 46	10/26/2010	mg/L	0.002 U
Vinyl chloride	MW 46	10/5/2011	mg/L	0.001 U
Vinyl chloride	MW 46	10/17/2012	mg/L	0.001 U
Vinyl chloride	MW 46	10/25/2013	mg/L	0.001 U
Vinyl chloride	MW 46	10/22/2014	mg/L	0.001 U
Vinyl chloride	MW 46	10/9/2015	mg/L	0.001 U
Vinyl chloride	MW 49	1/12/2005	mg/L	0.013
Vinyl chloride	MW 49	10/19/2007	mg/L	0.085
Vinyl chloride	MW 49	2/15/2008	mg/L	0.057
Vinyl chloride	MW 49	6/30/2008	mg/L	0.066
Vinyl chloride	MW 49	12/5/2008	mg/L	0.069
Vinyl chloride	MW 49	4/29/2009	mg/L	0.045
Vinyl chloride	MW 49	12/4/2009	mg/L	0.07
Vinyl chloride	MW 49	10/27/2010	mg/L	0.0465
Vinyl chloride	MW 49	4/19/2011	mg/L	0.022
Vinyl chloride	MW 49	10/5/2011	mg/L	0.025
Vinyl chloride	MW 49	5/15/2012	mg/L	0.025
Vinyl chloride	MW 49	10/17/2012	mg/L	0.03 J
Vinyl chloride	MW 49	4/10/2013	mg/L	0.027 J

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Vinyl chloride	MW 49	10/25/2013	mg/L	0.033
Vinyl chloride	MW 49	4/14/2014	mg/L	0.013
Vinyl chloride	MW 49	10/27/2014	mg/L	0.013 J
Vinyl chloride	MW 49	4/28/2015	mg/L	0.033 U
Vinyl chloride	MW 49	10/13/2015	mg/L	0.012 J
Vinyl chloride	MW 51	12/5/2008	mg/L	0.017 U
Vinyl chloride	MW 51	12/5/2008	mg/L	0.017 U
Vinyl chloride	MW 51	4/29/2009	mg/L	0.011 U
Vinyl chloride	MW 51	12/14/2009	mg/L	0.0083 U
Vinyl chloride	MW 51	10/27/2010	mg/L	0.001 U
Vinyl chloride	MW 51	4/20/2011	mg/L	0.0067 U
Vinyl chloride	MW 51	10/5/2011	mg/L	0.0091 U
Vinyl chloride	MW 51	5/14/2012	mg/L	0.0057 U
Vinyl chloride	MW 51	10/12/2012	mg/L	0.0067 U
Vinyl chloride	MW 51	4/9/2013	mg/L	0.003 J
Vinyl chloride	MW 51	10/23/2013	mg/L	0.0029 J
Vinyl chloride	MW 51	4/16/2014	mg/L	0.005 U
Vinyl chloride	MW 51	10/21/2014	mg/L	0.0041 J
Vinyl chloride	MW 51	4/28/2015	mg/L	0.0024 J / 0.0026 J
Vinyl chloride	MW 51	10/9/2015	mg/L	0.0079
Vinyl chloride	MW 56	1/11/2005	mg/L	0.001 U
Vinyl chloride	MW 56	10/19/2005	mg/L	0.001 U
Vinyl chloride	MW 56	10/18/2006	mg/L	0.001 U
Vinyl chloride	MW 56	10/18/2007	mg/L	0.001 U
Vinyl chloride	MW 56	6/26/2008	mg/L	0.001 U
Vinyl chloride	MW 56	12/17/2009	mg/L	0.001 U
Vinyl chloride	MW 56	10/28/2010	mg/L	0.001 U
Vinyl chloride	MW 56	10/6/2011	mg/L	0.001 U
Vinyl chloride	MW 56	10/16/2012	mg/L	0.001 U
Vinyl chloride	MW 56	10/29/2013	mg/L	0.001 U
Vinyl chloride	MW 56	10/29/2014	mg/L	0.001 U / 0.001 U
Vinyl chloride	MW 56	10/19/2015	mg/L	0.001 U
Vinyl chloride	MW 57	1/10/2005	mg/L	0.001 U
Vinyl chloride	MW 57	10/19/2005	mg/L	0.001 U
Vinyl chloride	MW 57	2/1/2006	mg/L	0.001 U
Vinyl chloride	MW 57	4/18/2006	mg/L	0.001 U
Vinyl chloride	MW 57	7/18/2006	mg/L	0.001 U
Vinyl chloride	MW 57	10/17/2006	mg/L	0.00083 J
Vinyl chloride	MW 57	1/24/2007	mg/L	0.001 U
Vinyl chloride	MW 57	4/16/2007	mg/L	0.001 U
Vinyl chloride	MW 57	7/10/2007	mg/L	0.00018 J
Vinyl chloride	MW 57	10/17/2007	mg/L	0.001 U
Vinyl chloride	MW 57	6/25/2008	mg/L	0.001 U
Vinyl chloride	MW 57	12/16/2009	mg/L	0.0016
Vinyl chloride	MW 57	10/28/2010	mg/L	0.001 U
Vinyl chloride	MW 57	10/28/2010	mg/L	0.001 U
Vinyl chloride	MW 57	10/6/2011	mg/L	0.001 U
Vinyl chloride	MW 57	10/16/2012	mg/L	0.0042
Vinyl chloride	MW 57	10/29/2013	mg/L	0.0062

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Vinyl chloride	MW 57	10/29/2014	mg/L	0.013
Vinyl chloride	MW 57	10/19/2015	mg/L	0.0037
Vinyl chloride	MW 58	1/10/2005	mg/L	0.001 U
Vinyl chloride	MW 58	10/19/2005	mg/L	0.001 U
Vinyl chloride	MW 58	10/17/2006	mg/L	0.0013
Vinyl chloride	MW 58	10/17/2007	mg/L	0.011
Vinyl chloride	MW 58	2/18/2008	mg/L	0.016
Vinyl chloride	MW 58	6/25/2008	mg/L	0.026
Vinyl chloride	MW 58	12/17/2009	mg/L	0.11
Vinyl chloride	MW 58	10/28/2010	mg/L	0.158
Vinyl chloride	MW 58	10/6/2011	mg/L	0.12
Vinyl chloride	MW 58	10/16/2012	mg/L	0.14
Vinyl chloride	MW 58	10/16/2012	mg/L	0.15
Vinyl chloride	MW 58	10/29/2013	mg/L	0.11
Vinyl chloride	MW 58	10/29/2014	mg/L	0.098
Vinyl chloride	MW 58	10/20/2015	mg/L	0.16 / 0.15
Vinyl chloride	MW 61	1/11/2005	mg/L	0.001 U
Vinyl chloride	MW 61	6/24/2008	mg/L	0.001 U
Vinyl chloride	MW 61	12/3/2009	mg/L	0.001 U
Vinyl chloride	MW 61	10/26/2010	mg/L	0.002 U
Vinyl chloride	MW 61	10/26/2010	mg/L	0.002 U
Vinyl chloride	MW 61	10/3/2011	mg/L	0.00029 J
Vinyl chloride	MW 61	10/10/2012	mg/L	0.001 U
Vinyl chloride	MW 61	10/23/2013	mg/L	0.001 U
Vinyl chloride	MW 61	10/21/2014	mg/L	0.00042 J
Vinyl chloride	MW 61	10/9/2015	mg/L	0.00068 J
Vinyl chloride	MW 64	1/11/2005	mg/L	0.001 U
Vinyl chloride	MW 64	10/19/2005	mg/L	0.0015
Vinyl chloride	MW 64	10/18/2006	mg/L	0.0013
Vinyl chloride	MW 64	10/19/2007	mg/L	0.009
Vinyl chloride	MW 64	2/18/2008	mg/L	0.0054
Vinyl chloride	MW 64	2/18/2008	mg/L	0.005
Vinyl chloride	MW 64	6/26/2008	mg/L	0.0011
Vinyl chloride	MW 64	12/8/2009	mg/L	0.01
Vinyl chloride	MW 64	12/8/2009	mg/L	0.013
Vinyl chloride	MW 64	10/25/2010	mg/L	0.016
Vinyl chloride	MW 64	10/3/2011	mg/L	0.032
Vinyl chloride	MW 64	10/11/2012	mg/L	0.027
Vinyl chloride	MW 64	10/11/2012	mg/L	0.027
Vinyl chloride	MW 64	10/22/2013	mg/L	0.045
Vinyl chloride	MW 64	10/28/2014	mg/L	0.033
Vinyl chloride	MW 64	10/13/2015	mg/L	0.03
Vinyl chloride	MW 65	1/10/2005	mg/L	0.54
Vinyl chloride	MW 65	10/18/2007	mg/L	0.68
Vinyl chloride	MW 65	2/15/2008	mg/L	0.77
Vinyl chloride	MW 65	6/27/2008	mg/L	1.2 J
Vinyl chloride	MW 65	12/4/2008	mg/L	0.54
Vinyl chloride	MW 65	4/28/2009	mg/L	0.69
Vinyl chloride	MW 65	12/4/2009	mg/L	0.67

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Vinyl chloride	MW 65	10/25/2010	mg/L	0.05 U
Vinyl chloride	MW 65	10/3/2011	mg/L	0.04 U
Vinyl chloride	MW 65	10/11/2012	mg/L	0.014 U
Vinyl chloride	MW 65	10/22/2013	mg/L	0.0025 J
Vinyl chloride	MW 65	10/22/2014	mg/L	0.00093 J / 0.0016 J
Vinyl chloride	MW 65	10/8/2015	mg/L	0.0012 J
Vinyl chloride	MW 66	1/11/2005	mg/L	0.003
Vinyl chloride	MW 66	1/11/2005	mg/L	0.0031
Vinyl chloride	MW 66	10/18/2005	mg/L	0.0067
Vinyl chloride	MW 66	10/18/2006	mg/L	0.014
Vinyl chloride	MW 66	10/19/2007	mg/L	0.015
Vinyl chloride	MW 66	10/19/2007	mg/L	0.015
Vinyl chloride	MW 66	2/18/2008	mg/L	0.02
Vinyl chloride	MW 66	6/26/2008	mg/L	0.02
Vinyl chloride	MW 66	12/4/2008	mg/L	0.0071
Vinyl chloride	MW 66	4/28/2009	mg/L	0.027
Vinyl chloride	MW 66	4/28/2009	mg/L	0.027
Vinyl chloride	MW 66	12/8/2009	mg/L	0.023
Vinyl chloride	MW 66	10/25/2010	mg/L	0.027
Vinyl chloride	MW 66	4/19/2011	mg/L	0.046
Vinyl chloride	MW 66	4/19/2011	mg/L	0.045
Vinyl chloride	MW 66	10/3/2011	mg/L	0.14
Vinyl chloride	MW 66	5/14/2012	mg/L	0.25
Vinyl chloride	MW 66	10/11/2012	mg/L	0.25
Vinyl chloride	MW 66	4/10/2013	mg/L	0.3
Vinyl chloride	MW 66	10/22/2013	mg/L	0.16
Vinyl chloride	MW 66	4/11/2014	mg/L	0.33
Vinyl chloride	MW 66	10/27/2014	mg/L	0.15
Vinyl chloride	MW 66	4/27/2015	mg/L	0.11
Vinyl chloride	MW 66	10/13/2015	mg/L	0.13
Vinyl chloride	MW 68	1/18/2005	mg/L	0.16
Vinyl chloride	MW 68	10/19/2005	mg/L	0.35 J
Vinyl chloride	MW 68	10/19/2005	mg/L	0.36 J
Vinyl chloride	MW 68	1/31/2006	mg/L	0.23 J
Vinyl chloride	MW 68	4/18/2006	mg/L	0.19 J
Vinyl chloride	MW 68	7/19/2006	mg/L	0.16 J
Vinyl chloride	MW 68	10/19/2006	mg/L	0.14 J
Vinyl chloride	MW 68	1/23/2007	mg/L	0.14 J
Vinyl chloride	MW 68	4/18/2007	mg/L	0.26
Vinyl chloride	MW 68	7/9/2007	mg/L	0.33 J
Vinyl chloride	MW 68	10/16/2007	mg/L	0.43 J
Vinyl chloride	MW 68	2/19/2008	mg/L	0.26
Vinyl chloride	MW 68	6/27/2008	mg/L	0.34 J
Vinyl chloride	MW 68	12/5/2008	mg/L	0.24 J
Vinyl chloride	MW 68	4/29/2009	mg/L	0.33 J
Vinyl chloride	MW 68	12/16/2009	mg/L	0.22 J
Vinyl chloride	MW 68	12/16/2009	mg/L	0.23 J
Vinyl chloride	MW 68	10/26/2010	mg/L	0.181
Vinyl chloride	MW 68	4/18/2011	mg/L	0.097 J

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Analyte	Location	Date	Unit	Result
Vinyl chloride	MW 68	10/4/2011	mg/L	0.16 J
Vinyl chloride	MW 68	10/4/2011	mg/L	0.16 J
Vinyl chloride	MW 68	5/14/2012	mg/L	0.25
Vinyl chloride	MW 68	10/12/2012	mg/L	0.24
Vinyl chloride	MW 68	4/10/2013	mg/L	0.21 J
Vinyl chloride	MW 68	4/10/2013	mg/L	0.19 J
Vinyl chloride	MW 68	10/23/2013	mg/L	0.24 J
Vinyl chloride	MW 68	11/14/2013	mg/L	0.3 / 0.3
Vinyl chloride	MW 68	4/10/2014	mg/L	0.24
Vinyl chloride	MW 68	10/23/2014	mg/L	0.15 J
Vinyl chloride	MW 68	4/28/2015	mg/L	0.18 J / 0.17 J
Vinyl chloride	MW 68	10/13/2015	mg/L	0.16 J / 0.12 J
Vinyl chloride	MW 75	1/14/2005	mg/L	0.001 U
Vinyl chloride	MW 75	10/19/2005	mg/L	0.001 U
Vinyl chloride	MW 75	10/19/2006	mg/L	0.001 U
Vinyl chloride	MW 75	10/16/2007	mg/L	0.001 U
Vinyl chloride	MW 75	6/30/2008	mg/L	0.001 U
Vinyl chloride	MW 75	10/27/2010	mg/L	0.001 U
Vinyl chloride	MW 75	10/5/2011	mg/L	0.001 U
Vinyl chloride	MW 75	10/12/2012	mg/L	0.001 U
Vinyl chloride	MW 75	10/23/2013	mg/L	0.001 U
Vinyl chloride	MW 75	10/21/2014	mg/L	0.001 U
Vinyl chloride	MW 76	1/14/2005	mg/L	0.001 U
Vinyl chloride	MW 76	10/20/2005	mg/L	0.001 U
Vinyl chloride	MW 76	10/19/2006	mg/L	0.001 U
Vinyl chloride	MW 76	10/16/2007	mg/L	0.001 U
Vinyl chloride	MW 76	10/27/2010	mg/L	0.001 U
Vinyl chloride	MW 76	10/5/2011	mg/L	0.001 U
Vinyl chloride	MW 76	10/5/2011	mg/L	0.001 U
Vinyl chloride	MW 76	10/12/2012	mg/L	0.001 U
Vinyl chloride	MW 76	10/23/2013	mg/L	0.00046 J
Vinyl chloride	MW 76	10/23/2013	mg/L	0.00048 J
Vinyl chloride	MW 76	10/21/2014	mg/L	0.00051 J
Vinyl chloride	MW 79	1/13/2005	mg/L	0.24
Vinyl chloride	MW 79	10/15/2007	mg/L	0.33
Vinyl chloride	MW 79	12/5/2008	mg/L	0.2
Vinyl chloride	MW 79	4/29/2009	mg/L	0.22
Vinyl chloride	MW 79	12/14/2009	mg/L	0.27
Vinyl chloride	MW 79	10/27/2010	mg/L	0.185
Vinyl chloride	MW 79	4/20/2011	mg/L	0.13
Vinyl chloride	MW 79	10/4/2011	mg/L	0.14
Vinyl chloride	MW 79	5/15/2012	mg/L	0.12
Vinyl chloride	MW 79	10/15/2012	mg/L	0.15
Vinyl chloride	MW 79	10/15/2012	mg/L	0.14
Vinyl chloride	MW 79	4/9/2013	mg/L	0.15
Vinyl chloride	MW 79	10/28/2013	mg/L	0.16
Vinyl chloride	MW 79	4/15/2014	mg/L	0.22
Vinyl chloride	MW 79	10/28/2014	mg/L	0.15 / 0.15
Vinyl chloride	MW 79	4/29/2015	mg/L	0.15

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Analyte	Location	Date	Unit	Result
Vinyl chloride	MW 79	10/13/2015	mg/L	0.13
Vinyl chloride	MW 80	3/9/2005	mg/L	0.11
Vinyl chloride	MW 80	3/9/2005	mg/L	0.12
Vinyl chloride	MW 80	10/18/2005	mg/L	0.15
Vinyl chloride	MW 80	10/18/2006	mg/L	0.033
Vinyl chloride	MW 80	10/17/2007	mg/L	0.042
Vinyl chloride	MW 80	6/27/2008	mg/L	0.068 J
Vinyl chloride	MW 80	6/27/2008	mg/L	0.093 J
Vinyl chloride	MW 80	12/8/2009	mg/L	0.069
Vinyl chloride	MW 80	10/25/2010	mg/L	0.0134
Vinyl chloride	MW 80	10/3/2011	mg/L	0.015
Vinyl chloride	MW 80	10/11/2012	mg/L	0.025
Vinyl chloride	MW 80	10/22/2013	mg/L	0.045
Vinyl chloride	MW 80	10/24/2014	mg/L	0.036
Vinyl chloride	MW 80	10/8/2015	mg/L	0.04
Vinyl chloride	MW 81	3/9/2005	mg/L	0.0034
Vinyl chloride	MW 81	3/30/2005	mg/L	0.004 J
Vinyl chloride	MW 81	10/19/2005	mg/L	0.0058
Vinyl chloride	MW 81	10/18/2006	mg/L	0.0062
Vinyl chloride	MW 81	10/18/2006	mg/L	0.0062
Vinyl chloride	MW 81	10/18/2007	mg/L	0.0092
Vinyl chloride	MW 81	2/15/2008	mg/L	0.013
Vinyl chloride	MW 81	6/26/2008	mg/L	0.016
Vinyl chloride	MW 81	12/4/2009	mg/L	0.026
Vinyl chloride	MW 81	10/25/2010	mg/L	0.0268
Vinyl chloride	MW 81	10/3/2011	mg/L	0.05
Vinyl chloride	MW 81	10/11/2012	mg/L	0.051
Vinyl chloride	MW 81	10/22/2013	mg/L	0.066
Vinyl chloride	MW 81	10/22/2014	mg/L	0.041
Vinyl chloride	MW 81	10/8/2015	mg/L	0.062
Vinyl chloride	MW 82	3/9/2005	mg/L	0.001 U
Vinyl chloride	MW 82	10/20/2005	mg/L	0.001 U
Vinyl chloride	MW 82	10/19/2006	mg/L	0.001 U
Vinyl chloride	MW 82	10/16/2007	mg/L	0.001 U
Vinyl chloride	MW 82	6/27/2008	mg/L	0.001 U
Vinyl chloride	MW 82	12/15/2009	mg/L	0.001 U
Vinyl chloride	MW 82	10/27/2010	mg/L	0.001 U
Vinyl chloride	MW 82	10/4/2011	mg/L	0.001 U
Vinyl chloride	MW 82	10/23/2013	mg/L	0.001 U
Vinyl chloride	MW 82	10/24/2014	mg/L	0.001 U
Vinyl chloride	MW 82	10/12/2015	mg/L	0.001 U
Vinyl chloride	MW 83	3/9/2005	mg/L	0.001 U
Vinyl chloride	MW 83	10/18/2005	mg/L	0.001 U
Vinyl chloride	MW 83	10/18/2006	mg/L	0.001 U
Vinyl chloride	MW 83	10/18/2007	mg/L	0.001 U
Vinyl chloride	MW 83	6/27/2008	mg/L	0.001 U
Vinyl chloride	MW 83	12/8/2009	mg/L	0.001 U
Vinyl chloride	MW 83	10/26/2010	mg/L	0.002 U
Vinyl chloride	MW 83	10/4/2011	mg/L	0.0003 J

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Vinyl chloride	MW 83	10/10/2012	mg/L	0.00045 J
Vinyl chloride	MW 83	10/24/2013	mg/L	0.0015
Vinyl chloride	MW 83	10/22/2014	mg/L	0.0015
Vinyl chloride	MW 83	10/9/2015	mg/L	0.0037
Vinyl chloride	MW 85	2/19/2008	mg/L	0.36
Vinyl chloride	MW 85	6/25/2008	mg/L	0.25
Vinyl chloride	MW 85	12/4/2008	mg/L	0.5
Vinyl chloride	MW 85	4/30/2009	mg/L	0.48
Vinyl chloride	MW 85	12/17/2009	mg/L	0.76
Vinyl chloride	MW 85	10/28/2010	mg/L	0.808
Vinyl chloride	MW 85	4/20/2011	mg/L	0.45
Vinyl chloride	MW 85	10/6/2011	mg/L	0.51
Vinyl chloride	MW 85	5/16/2012	mg/L	0.59
Vinyl chloride	MW 85	10/16/2012	mg/L	0.77
Vinyl chloride	MW 85	4/12/2013	mg/L	0.69
Vinyl chloride	MW 85	10/29/2013	mg/L	0.64
Vinyl chloride	MW 85	4/16/2014	mg/L	0.84
Vinyl chloride	MW 85	10/29/2014	mg/L	0.6
Vinyl chloride	MW 85	4/27/2015	mg/L	0.37 J
Vinyl chloride	MW 85	10/19/2015	mg/L	0.44
Vinyl chloride	MW 86	10/28/2010	mg/L	0.001 U
Vinyl chloride	MW 86	10/28/2010	mg/L	0.002 U
Vinyl chloride	MW 86	10/4/2011	mg/L	0.001 U
Vinyl chloride	MW 86	10/11/2012	mg/L	0.001 U
Vinyl chloride	MW 86	10/22/2013	mg/L	0.001 U
Vinyl chloride	MW 86	10/22/2014	mg/L	0.001 U
Vinyl chloride	MW 86	10/8/2015	mg/L	0.001 U
Vinyl chloride	MW 88	10/29/2010	mg/L	0.002 U
Vinyl chloride	MW 88	10/3/2011	mg/L	0.001 U
Vinyl chloride	MW 88	10/11/2012	mg/L	0.001 U
Vinyl chloride	MW 88	10/22/2013	mg/L	0.001 U
Vinyl chloride	MW 88	10/22/2014	mg/L	0.00034 J
Vinyl chloride	MW 88	10/8/2015	mg/L	0.001 / 0.00098 J
Vinyl chloride	MW 89-11	12/8/2011	mg/L	0.001 U
Vinyl chloride	MW 89-11	12/8/2011	mg/L	0.001 U
Vinyl chloride	MW 89-11	10/17/2012	mg/L	0.001 U
Vinyl chloride	MW 89-11	4/12/2013	mg/L	0.001 U
Vinyl chloride	MW 89-11	4/12/2013	mg/L	0.001 U
Vinyl chloride	MW 89-11	10/28/2013	mg/L	0.001 U
Vinyl chloride	MW 89-11	4/16/2014	mg/L	0.001 U
Vinyl chloride	MW 89-11	10/28/2014	mg/L	0.001 U
Vinyl chloride	MW 89-11	4/28/2015	mg/L	0.001 U
Vinyl chloride	MW 89-11	10/15/2015	mg/L	0.001 U
Vinyl chloride	Pond Intake	1/11/2005	mg/L	0.0056
Vinyl chloride	Pond Intake	4/19/2005	mg/L	0.001 U
Vinyl chloride	Pond Intake	10/17/2005	mg/L	0.001 U
Vinyl chloride	Pond Intake	2/1/2006	mg/L	0.001 U
Vinyl chloride	Pond Intake	4/17/2006	mg/L	0.001 U
Vinyl chloride	Pond Intake	7/18/2006	mg/L	0.001 U

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Vinyl chloride	Pond Intake	10/17/2006	mg/L	0.001 U
Vinyl chloride	Pond Intake	1/22/2007	mg/L	0.006
Vinyl chloride	Pond Intake	4/16/2007	mg/L	0.00038 J
Vinyl chloride	Pond Intake	5/9/2007	mg/L	0.00047 J
Vinyl chloride	Pond Intake	6/18/2007	mg/L	0.00052 J
Vinyl chloride	Pond Intake	7/10/2007	mg/L	0.001 U
Vinyl chloride	Pond Intake	8/15/2007	mg/L	0.0004 J
Vinyl chloride	Pond Intake	9/27/2007	mg/L	0.00029 J
Vinyl chloride	Pond Intake	10/17/2007	mg/L	0.001 U
Vinyl chloride	Pond Intake	11/9/2007	mg/L	0.001 U
Vinyl chloride	Pond Intake	12/4/2007	mg/L	0.001 U
Vinyl chloride	Pond Intake	2/18/2008	mg/L	0.0022
Vinyl chloride	Pond Intake	6/25/2008	mg/L	0.0031
Vinyl chloride	Pond Intake	9/23/2008	mg/L	0.001 U
Vinyl chloride	Pond Intake	12/4/2008	mg/L	0.001 U
Vinyl chloride	Pond Intake	3/4/2009	mg/L	0.0012
Vinyl chloride	Pond Intake	3/4/2009	mg/L	0.0013
Vinyl chloride	Pond Intake	4/30/2009	mg/L	0.0031
Vinyl chloride	Pond Intake	7/30/2009	mg/L	0.0017
Vinyl chloride	Pond Intake	7/30/2009	mg/L	0.0017
Vinyl chloride	Pond Intake	12/17/2009	mg/L	0.0015
Vinyl chloride	Pond Intake	8/4/2010	mg/L	0.0049
Vinyl chloride	Pond Intake	10/28/2010	mg/L	0.001 U
Vinyl chloride	Pond Intake	4/20/2011	mg/L	0.0019
Vinyl chloride	Pond Intake	7/28/2011	mg/L	0.0042
Vinyl chloride	Pond Intake	10/6/2011	mg/L	0.0021
Vinyl chloride	Pond Intake	10/6/2011	mg/L	0.0022
Vinyl chloride	Pond Intake	5/16/2012	mg/L	0.0038
Vinyl chloride	Pond Intake	8/2/2012	mg/L	0.0048
Vinyl chloride	Pond Intake	10/16/2012	mg/L	0.00067 J
Vinyl chloride	Pond Intake	4/12/2013	mg/L	0.0046
Vinyl chloride	Pond Intake	7/17/2013	mg/L	0.0048
Vinyl chloride	Pond Intake	10/29/2013	mg/L	0.0022
Vinyl chloride	Pond Intake	4/16/2014	mg/L	0.0069
Vinyl chloride	Pond Intake	7/17/2014	mg/L	0.0049 / 0.0048
Vinyl chloride	Pond Intake	10/29/2014	mg/L	0.0039
Vinyl chloride	Pond Intake	4/27/2015	mg/L	0.0053
Vinyl chloride	Pond Intake	7/10/2015	mg/L	0.008 / 0.0079
Vinyl chloride	Pond Intake	10/20/2015	mg/L	0.0065
Vinyl chloride	Pond North	1/11/2005	mg/L	0.013
Vinyl chloride	Pond North	4/19/2005	mg/L	0.001 U
Vinyl chloride	Pond North	10/17/2005	mg/L	0.001 U
Vinyl chloride	Pond North	2/1/2006	mg/L	0.001 U
Vinyl chloride	Pond North	4/17/2006	mg/L	0.001 U
Vinyl chloride	Pond North	7/18/2006	mg/L	0.001 U
Vinyl chloride	Pond North	10/17/2006	mg/L	0.001 U
Vinyl chloride	Pond North	1/22/2007	mg/L	0.0067 J
Vinyl chloride	Pond North	4/16/2007	mg/L	0.024
Vinyl chloride	Pond North	5/9/2007	mg/L	0.001 U

Groundwater Data
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Anderson, Indiana

Analyte	Location	Date	Unit	Result
Vinyl chloride	Pond North	6/18/2007	mg/L	0.00083 J
Vinyl chloride	Pond North	7/10/2007	mg/L	0.00035 J
Vinyl chloride	Pond North	8/15/2007	mg/L	0.0005 J
Vinyl chloride	Pond North	9/27/2007	mg/L	0.00084 J
Vinyl chloride	Pond North	10/17/2007	mg/L	0.00072 J
Vinyl chloride	Pond North	11/9/2007	mg/L	0.001 U
Vinyl chloride	Pond North	12/4/2007	mg/L	0.001 U
Vinyl chloride	Pond North	2/18/2008	mg/L	0.0022
Vinyl chloride	Pond North	6/25/2008	mg/L	0.0035
Vinyl chloride	Pond North	9/23/2008	mg/L	0.0012
Vinyl chloride	Pond North	9/23/2008	mg/L	0.0013
Vinyl chloride	Pond North	12/4/2008	mg/L	0.001 U
Vinyl chloride	Pond North	3/4/2009	mg/L	0.0012
Vinyl chloride	Pond North	4/30/2009	mg/L	0.0039
Vinyl chloride	Pond North	7/30/2009	mg/L	0.0018
Vinyl chloride	Pond North	12/17/2009	mg/L	0.5
Vinyl chloride	Pond North	8/4/2010	mg/L	0.004
Vinyl chloride	Pond North	8/4/2010	mg/L	0.0051
Vinyl chloride	Pond North	10/28/2010	mg/L	0.001 U
Vinyl chloride	Pond North	4/20/2011	mg/L	0.0043
Vinyl chloride	Pond North	7/28/2011	mg/L	0.0088
Vinyl chloride	Pond North	7/28/2011	mg/L	0.0067
Vinyl chloride	Pond North	10/6/2011	mg/L	0.012
Vinyl chloride	Pond North	5/16/2012	mg/L	0.014
Vinyl chloride	Pond North	5/16/2012	mg/L	0.014
Vinyl chloride	Pond North	8/2/2012	mg/L	0.012
Vinyl chloride	Pond North	8/2/2012	mg/L	0.011
Vinyl chloride	Pond North	10/16/2012	mg/L	0.012
Vinyl chloride	Pond North	4/12/2013	mg/L	0.0081
Vinyl chloride	Pond North	7/17/2013	mg/L	0.014
Vinyl chloride	Pond North	7/17/2013	mg/L	0.014
Vinyl chloride	Pond North	10/29/2013	mg/L	0.0033
Vinyl chloride	Pond North	4/16/2014	mg/L	0.089
Vinyl chloride	Pond North	7/17/2014	mg/L	0.041
Vinyl chloride	Pond North	10/29/2014	mg/L	0.019
Vinyl chloride	Pond North	4/27/2015	mg/L	0.0091
Vinyl chloride	Pond North	7/10/2015	mg/L	0.0077
Vinyl chloride	Pond North	10/20/2015	mg/L	0.0047

Note:
Boxed values are outliers.

Table B.2

Descriptive Statistics and Trend Test Results
2015 Annual Groundwater Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Location	Analyte	Units	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum	Maximum	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
										Statistic	Probability	Confidence in trend	Conclusion	
MW-2	TCE	mg/L	2007 -- 2015	11	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 3	TCE	mg/L	2005 -- 2015	26	26	100%	0.013	18	0	-53	0.874	13%	NT or Decreasing	-9.2E-04
MW-4	TCE	mg/L	2005 -- 2015	26	13	50%	0.001 U	1.7	--	--	--	--	--	--
MW 8	TCE	mg/L	2005 -- 2015	23	23	100%	0.046	1.4	0	-30	0.778	22%	NT or Decreasing	-2.9E-05
MW 12	TCE	mg/L	2005 -- 2015	25	22	88%	0.0013 J	0.16	0	-247	1.000	0%	NT or Decreasing	-2.1E-05
MW 14	TCE	mg/L	2005 -- 2015	25	2	8%	0.001 U	0.5 U	--	--	--	--	--	--
MW 28	TCE	mg/L	2005 -- 2015	18	1	6%	0.00015 J	0.04 U	--	--	--	--	--	--
MW 31R	TCE	mg/L	2005 -- 2015	24	18	75%	0.04 J	2.5	0	-121	0.999	0%	NT or Decreasing	-2.4E-04
MW 37	TCE	mg/L	2005 -- 2015	10	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 40	TCE	mg/L	2005 -- 2015	26	10	38%	0.0013 U	0.83 U	--	--	--	--	--	--
MW 41	TCE	mg/L	2005 -- 2015	25	1	4%	0.00017 J	0.63 U	--	--	--	--	--	--
MW 42	TCE	mg/L	2005 -- 2015	25	1	4%	0.00011 J	0.71 U	--	--	--	--	--	--
MW 46	TCE	mg/L	2005 -- 2015	10	2	20%	0.00013 J	0.005 U	--	--	--	--	--	--
MW 49	TCE	mg/L	2005 -- 2015	18	6	33%	0.00041 J	0.04 U	--	--	--	--	--	--
MW 51	TCE	mg/L	2008 -- 2015	14	14	100%	0.16	0.3	0	-53	0.998	0%	NT or Decreasing	-4.2E-05
MW 56	TCE	mg/L	2005 -- 2015	12	1	8%	0.001 U	0.00067 J	--	--	--	--	--	--
MW 57	TCE	mg/L	2005 -- 2015	18	2	11%	0.00011 J	0.001 U	--	--	--	--	--	--
MW 58	TCE	mg/L	2005 -- 2015	13	2	15%	0.001 U	0.0059	--	--	--	--	--	--
MW 61	TCE	mg/L	2005 -- 2015	9	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
MW 64	TCE	mg/L	2005 -- 2015	13	5	38%	0.00011 J	0.063	--	--	--	--	--	--
MW 65	TCE	mg/L	2005 -- 2015	13	0	0%	0.001 U	0.17 U	--	--	--	--	--	--
MW 66	TCE	mg/L	2005 -- 2015	20	1	5%	0.00034 J	0.04 U	--	--	--	--	--	--
MW 68	TCE	mg/L	2005 -- 2015	27	26	96%	0.1	2.6	0	135	0.003	100%	**Increasing**	3.9E-04
MW 79	TCE	mg/L	2005 -- 2015	16	1	6%	0.001 U	0.12	--	--	--	--	--	--
MW 80	TCE	mg/L	2005 -- 2015	12	1	8%	0.00021 J	0.0083 U	--	--	--	--	--	--
MW 81	TCE	mg/L	2005 -- 2015	14	0	0%	0.001 U	0.008 U	--	--	--	--	--	--
MW 82	TCE	mg/L	2005 -- 2015	11	1	9%	0.001 U	0.00066 J	--	--	--	--	--	--
MW 83	TCE	mg/L	2005 -- 2015	12	1	8%	0.00023 J	0.005 U	--	--	--	--	--	--
MW 85	TCE	mg/L	2008 -- 2015	16	1	6%	0.001 U	0.5 U	--	--	--	--	--	--
MW 86	TCE	mg/L	2010 -- 2015	6	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
MW 88	TCE	mg/L	2010 -- 2015	6	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
MW 89-11	TCE	mg/L	2011 -- 2015	8	1	13%	0.00032 J	0.001 U	--	--	--	--	--	--
Pond Intake	TCE	mg/L	2005 -- 2015	42	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
Pond North	TCE	mg/L	2005 -- 2015	42	0	0%	0.001 U	0.017 U	--	--	--	--	--	--

Table B.2

Descriptive Statistics and Trend Test Results
2015 Annual Groundwater Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Location	Analyte	Units	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum	Maximum	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
										Statistic	Probability	Confidence in trend	Conclusion	
MW-2	cis-1,2-DCE	mg/L	2007 -- 2015	11	2	18%	0.00015 J	0.0021	--	--	--	--	--	--
MW 3	cis-1,2-DCE	mg/L	2005 -- 2015	26	25	96%	0.0042 U	12	0	-8	0.561	44%	NT or Decreasing	-1.8E-04
MW-4	cis-1,2-DCE	mg/L	2005 -- 2015	26	26	100%	5.4	23	1	68	0.069	93%	**Increasing**	0.001
MW 8	cis-1,2-DCE	mg/L	2005 -- 2015	23	23	100%	0.24	22	1	-102	0.996	0%	NT or Decreasing	-0.002
MW 12	cis-1,2-DCE	mg/L	2005 -- 2015	25	25	100%	0.08	1	0	-245	1.000	0%	NT or Decreasing	-1.7E-04
MW 14	cis-1,2-DCE	mg/L	2005 -- 2015	25	25	100%	0.33	7.7	1	-71	0.950	5%	NT or Decreasing	-3.5E-04
MW 28	cis-1,2-DCE	mg/L	2005 -- 2015	18	8	44%	0.001 U	0.86	--	--	--	--	--	--
MW 31R	cis-1,2-DCE	mg/L	2005 -- 2015	24	24	100%	5.1	45	1	-89	0.986	1%	NT or Decreasing	-0.002
MW 37	cis-1,2-DCE	mg/L	2005 -- 2015	10	1	10%	0.001 U	0.0011	--	--	--	--	--	--
MW 40	cis-1,2-DCE	mg/L	2005 -- 2015	26	26	100%	6.3	17	0	-153	1.000	0%	NT or Decreasing	-0.002
MW 41	cis-1,2-DCE	mg/L	2005 -- 2015	25	25	100%	4.3	10	0	17	0.354	65%	NT or Decreasing	1.1E-04
MW 42	cis-1,2-DCE	mg/L	2005 -- 2015	25	25	100%	3.7	12	0	-163	1.000	0%	NT or Decreasing	-0.001
MW 46	cis-1,2-DCE	mg/L	2005 -- 2015	10	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
MW 49	cis-1,2-DCE	mg/L	2005 -- 2015	18	17	94%	0.001 U	0.9	0	105	4.0E-05	100%	**Increasing**	2.8E-04
MW 51	cis-1,2-DCE	mg/L	2008 -- 2015	14	13	93%	0.0067 U	0.011	0	-2	0.522	48%	NT or Decreasing	-3.8E-08
MW 56	cis-1,2-DCE	mg/L	2005 -- 2015	12	3	25%	0.00021 J	0.003	--	--	--	--	--	--
MW 57	cis-1,2-DCE	mg/L	2005 -- 2015	18	6	33%	0.00014 J	0.004	--	--	--	--	--	--
MW 58	cis-1,2-DCE	mg/L	2005 -- 2015	13	2	15%	0.001 U	0.028	--	--	--	--	--	--
MW 61	cis-1,2-DCE	mg/L	2005 -- 2015	9	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
MW 64	cis-1,2-DCE	mg/L	2005 -- 2015	13	6	46%	0.00014 J	0.25	--	--	--	--	--	--
MW 65	cis-1,2-DCE	mg/L	2005 -- 2015	13	13	100%	0.051	3	0	-35	0.981	2%	NT or Decreasing	-0.001
MW 66	cis-1,2-DCE	mg/L	2005 -- 2015	20	14	70%	0.00012 J	1	--	--	--	--	--	--
MW 68	cis-1,2-DCE	mg/L	2005 -- 2015	27	27	100%	5.1	16	0	-242	1.000	0%	NT or Decreasing	-0.002
MW 79	cis-1,2-DCE	mg/L	2005 -- 2015	16	16	100%	0.79	2.9	0	87	5.3E-05	100%	**Increasing**	5.1E-04
MW 80	cis-1,2-DCE	mg/L	2005 -- 2015	12	2	17%	0.00013 J	0.0083 U	--	--	--	--	--	--
MW 81	cis-1,2-DCE	mg/L	2005 -- 2015	14	7	50%	0.00024 J	0.19	--	--	--	--	--	--
MW 82	cis-1,2-DCE	mg/L	2005 -- 2015	11	2	18%	0.00041 J	0.0022	--	--	--	--	--	--
MW 83	cis-1,2-DCE	mg/L	2005 -- 2015	12	2	17%	0.00032 J	0.005 U	--	--	--	--	--	--
MW 85	cis-1,2-DCE	mg/L	2008 -- 2015	16	11	69%	0.001 U	10	--	--	--	--	--	--
MW 86	cis-1,2-DCE	mg/L	2010 -- 2015	6	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
MW 88	cis-1,2-DCE	mg/L	2010 -- 2015	6	0	0%	0.001 U	0.005 U	--	--	--	--	--	--
MW 89-11	cis-1,2-DCE	mg/L	2011 -- 2015	8	2	25%	0.0003 J	0.00055 J	--	--	--	--	--	--
Pond Intake	cis-1,2-DCE	mg/L	2005 -- 2015	42	20	48%	0.00019 J	0.11	--	--	--	--	--	--
Pond North	cis-1,2-DCE	mg/L	2005 -- 2015	42	22	52%	0.00016 J	0.31	--	--	--	--	--	--

Table B.2

Descriptive Statistics and Trend Test Results
2015 Annual Groundwater Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Location	Analyte	Units	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum	Maximum	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
										Statistic	Probability	Confidence in trend	Conclusion	
MW-2	VC	mg/L	2007 -- 2015	11	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 3 [(1)]	VC	mg/L	2005 -- 2015	18	18	100%	0.00027 J	2	0	-32	0.880	12%	NT or Decreasing	-4.1E-05
MW-4	VC	mg/L	2005 -- 2015	26	26	100%	0.38 J	2.1	0	-175	1.000	0%	NT or Decreasing	-2.1E-04
MW 8	VC	mg/L	2005 -- 2015	23	23	100%	0.027	6.9	2	-23	0.721	28%	NT or Decreasing	-5.9E-05
MW 12	VC	mg/L	2005 -- 2015	25	1	4%	0.0014 U	0.05 U	--	--	--	--	--	--
MW 14	VC	mg/L	2005 -- 2015	25	25	100%	0.0087 J	0.51	0	-141	0.999	0%	NT or Decreasing	-5.7E-05
MW 28	VC	mg/L	2005 -- 2015	18	18	100%	0.057	0.22	0	65	0.008	99%	**Increasing**	2.7E-05
MW 31R	VC	mg/L	2005 -- 2015	24	24	100%	0.63	13	0	-165	1.000	0%	NT or Decreasing	-0.002
MW 37	VC	mg/L	2005 -- 2015	10	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 40	VC	mg/L	2005 -- 2015	26	26	100%	0.43 J	2.1	0	-20	0.663	34%	NT or Decreasing	-1.7E-05
MW 41	VC	mg/L	2005 -- 2015	25	25	100%	0.14 J	0.73	0	176	2.1E-05	100%	**Increasing**	1.2E-04
MW 42	VC	mg/L	2005 -- 2015	25	24	96%	0.084 J	0.25 J	0	19	0.336	66%	NT or Decreasing	0.0E+00
MW 46	VC	mg/L	2005 -- 2015	10	0	0%	0.001 U	0.002 U	--	--	--	--	--	--
MW 49	VC	mg/L	2005 -- 2015	18	17	94%	0.012 J	0.085	0	-79	0.998	0%	NT or Decreasing	-1.8E-05
MW 51	VC	mg/L	2008 -- 2015	14	5	36%	0.001 U	0.017 U	--	--	--	--	--	--
MW 56	VC	mg/L	2005 -- 2015	12	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 57	VC	mg/L	2005 -- 2015	18	7	39%	0.00018 J	0.013	--	--	--	--	--	--
MW 58	VC	mg/L	2005 -- 2015	13	11	85%	0.001 U	0.16	0	54	0.001	100%	**Increasing**	4.1E-05
MW 61	VC	mg/L	2005 -- 2015	9	3	33%	0.00029 J	0.002 U	--	--	--	--	--	--
MW 64	VC	mg/L	2005 -- 2015	13	12	92%	0.001 U	0.045	0	56	4.0E-04	100%	**Increasing**	9.6E-06
MW 65	VC	mg/L	2005 -- 2015	13	10	77%	0.0012 J	1.2 J	0	-34	0.979	2%	NT or Decreasing	-2.5E-04
MW 66	VC	mg/L	2005 -- 2015	20	20	100%	0.0031	0.33	0	133	9.0E-06	100%	**Increasing**	4.4E-05
MW 68	VC	mg/L	2005 -- 2015	27	27	100%	0.097 J	0.43 J	0	-45	0.821	18%	NT or Decreasing	-1.0E-05
MW 79	VC	mg/L	2005 -- 2015	16	16	100%	0.12	0.33	0	-45	0.977	2%	NT or Decreasing	-2.8E-05
MW 80	VC	mg/L	2005 -- 2015	12	12	100%	0.0134	0.15	0	-20	0.904	10%	NT or Decreasing	-1.8E-05
MW 81	VC	mg/L	2005 -- 2015	14	14	100%	0.0034	0.066	0	83	3.6E-06	100%	**Increasing**	1.6E-05
MW 82	VC	mg/L	2005 -- 2015	11	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
MW 83	VC	mg/L	2005 -- 2015	12	5	42%	0.0003 J	0.0037	--	--	--	--	--	--
MW 85	VC	mg/L	2008 -- 2015	16	16	100%	0.25	0.84	0	24	0.150	85%	NT or Decreasing	7.1E-05
MW 86	VC	mg/L	2010 -- 2015	6	0	0%	0.001 U	0.002 U	--	--	--	--	--	--
MW 88	VC	mg/L	2010 -- 2015	6	2	33%	0.00034 J	0.002 U	--	--	--	--	--	--
MW 89-11	VC	mg/L	2011 -- 2015	8	0	0%	0.001 U	0.001 U	--	--	--	--	--	--
Pond Intake	VC	mg/L	2005 -- 2015	42	29	69%	0.00029 J	0.008	--	--	--	--	--	--
Pond North	VC	mg/L	2005 -- 2015	42	31	74%	0.00035 J	0.5	--	--	--	--	--	--

Notes:
[(1)] Tend test was calculated using detected values only, due to elevated detection limits for non-detects.
-- Trend test not performed due to infrequent detections (i.e., fewer than 75 percent detects).
NT or Decreasing - A statistically-significant (90 percent confidence) increasing trend was not found.
Analyte concentrations may be stable or decreasing over time. (Per approved Monitoring Plan, a 1-sided test is performed).
Wells MW 75 and MW 76 were not sampled during the 2015 monitoring event.

Appendix C
Laboratory Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-50057-1
Client Project/Site: 17302-T07, RACER Delphi Anderson

For:
Conestoga-Rovers & Associates, Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
5/12/2015 4:26:07 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-50057-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 17302-T07, RACER Delphi Anderson

Report Number: 240-50057-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 04/30/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.7 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples SW-042715-SM-001 (240-50057-1), SW-042715-SM-002 (240-50057-2), GW-042715-SM-001 (240-50057-3), GW-042715-SM-002 (240-50057-4), GW-042715-SM-003 (240-50057-5), GW-042715-SM-004 (240-50057-6), GW-042815-SM-005 (240-50057-7), GW-042815-SM-006 (240-50057-8), GW-042815-SM-007 (240-50057-9), GW-042815-SM-008 (240-50057-10), GW-042815-SM-009 (240-50057-11), GW-042815-SM-010 (240-50057-12), GW-042815-SM-011 (240-50057-13), GW-042815-SM-012 (240-50057-14), GW-042815-SM-013 (240-50057-15), GW-042815-SM-014 (240-50057-16), RB-042815-SM-001 (240-50057-17), RB-042815-SM-002 (240-50057-18), GW-042915-SM-015 (240-50057-19), GW-042915-SM-016 (240-50057-20), GW-042915-SM-017 (240-50057-21), GW-042915-SM-018 (240-50057-22), GW-042915-SM-019 (240-50057-23), GW-042915-SM-020 (240-50057-24), RB-042915-SM-003 (240-50057-25) and TB-042915-SM-001 (240-50057-26) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/07/2015 and 05/11/2015.

cis-1,2-Dichloroethene failed the recovery criteria high for the MS of sample GW-042815-SM-014MS (240-50057-16) in batch 240-179760.

1,1,2-Trichloro-1,2,2-trifluoroethane, 1,4-Dichlorobenzene, Methylcyclohexane and Tetrachloroethene failed the recovery criteria low for the

Job ID: 240-50057-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

MS of sample GW-042915-SM-020MS (240-50057-24) in batch 240-179627.

1,1,2-Trichloro-1,2,2-trifluoroethane, Cyclohexane and Methylcyclohexane exceeded the RPD limit for the MSD of sample GW-042915-SM-020MSD (240-50057-24) in batch 240-179627.

Samples SW-042715-SM-001 (240-50057-1)[1.25X], SW-042715-SM-002 (240-50057-2)[8X], GW-042715-SM-001 (240-50057-3)[500X], GW-042715-SM-002 (240-50057-4)[500X], GW-042715-SM-003 (240-50057-5)[25X], GW-042715-SM-004 (240-50057-6)[5.71X], GW-042815-SM-005 (240-50057-7)[33.33X], GW-042815-SM-007 (240-50057-9)[250X], GW-042815-SM-008 (240-50057-10)[250X], GW-042815-SM-009 (240-50057-11)[500X], GW-042815-SM-010 (240-50057-12)[333.33X], GW-042815-SM-011 (240-50057-13) [166.67X], GW-042815-SM-012 (240-50057-14)[5.71X], GW-042815-SM-013 (240-50057-15)[5.71X], GW-042815-SM-014 (240-50057-16) [333.33X], GW-042915-SM-015 (240-50057-19)[25X], GW-042915-SM-016 (240-50057-20)[200X], GW-042915-SM-017 (240-50057-21) [333.33X], GW-042915-SM-018 (240-50057-22)[200X], GW-042915-SM-019 (240-50057-23)[200X] and GW-042915-SM-020 (240-50057-24)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-50057-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-50057-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-50057-1	SW-042715-SM-001	Water	04/27/15 10:06	04/30/15 10:30
240-50057-2	SW-042715-SM-002	Water	04/27/15 10:10	04/30/15 10:30
240-50057-3	GW-042715-SM-001	Water	04/27/15 10:17	04/30/15 10:30
240-50057-4	GW-042715-SM-002	Water	04/27/15 11:03	04/30/15 10:30
240-50057-5	GW-042715-SM-003	Water	04/27/15 11:57	04/30/15 10:30
240-50057-6	GW-042715-SM-004	Water	04/27/15 12:47	04/30/15 10:30
240-50057-7	GW-042815-SM-005	Water	04/28/15 08:17	04/30/15 10:30
240-50057-8	GW-042815-SM-006	Water	04/28/15 09:08	04/30/15 10:30
240-50057-9	GW-042815-SM-007	Water	04/28/15 09:57	04/30/15 10:30
240-50057-10	GW-042815-SM-008	Water	04/28/15 10:00	04/30/15 10:30
240-50057-11	GW-042815-SM-009	Water	04/28/15 10:43	04/30/15 10:30
240-50057-12	GW-042815-SM-010	Water	04/28/15 11:12	04/30/15 10:30
240-50057-13	GW-042815-SM-011	Water	04/28/15 11:47	04/30/15 10:30
240-50057-14	GW-042815-SM-012	Water	04/28/15 12:52	04/30/15 10:30
240-50057-15	GW-042815-SM-013	Water	04/28/15 12:57	04/30/15 10:30
240-50057-16	GW-042815-SM-014	Water	04/28/15 13:37	04/30/15 10:30
240-50057-17	RB-042815-SM-001	Water	04/28/15 08:30	04/30/15 10:30
240-50057-18	RB-042815-SM-002	Water	04/28/15 13:45	04/30/15 10:30
240-50057-19	GW-042915-SM-015	Water	04/29/15 08:33	04/30/15 10:30
240-50057-20	GW-042915-SM-016	Water	04/29/15 09:17	04/30/15 10:30
240-50057-21	GW-042915-SM-017	Water	04/29/15 09:37	04/30/15 10:30
240-50057-22	GW-042915-SM-018	Water	04/29/15 10:17	04/30/15 10:30
240-50057-23	GW-042915-SM-019	Water	04/29/15 10:20	04/30/15 10:30
240-50057-24	GW-042915-SM-020	Water	04/29/15 11:17	04/30/15 10:30
240-50057-25	RB-042915-SM-003	Water	04/29/15 10:30	04/30/15 10:30
240-50057-26	TB-042915-SM-001	Water	04/29/15 12:00	04/30/15 10:30

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-50057-1

Client Sample ID: SW-042715-SM-001 — Lab Sample ID: 240-50057-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.4	J	13	1.2	ug/L	1.25		8260B	Total/NA
1,1-Dichloroethane	1.4		1.3	0.38	ug/L	1.25		8260B	Total/NA
Vinyl chloride	5.3		1.3	0.36	ug/L	1.25		8260B	Total/NA
cis-1,2-Dichloroethene	33		1.3	0.33	ug/L	1.25		8260B	Total/NA
trans-1,2-Dichloroethene	1.1	J	1.3	0.38	ug/L	1.25		8260B	Total/NA

Client Sample ID: SW-042715-SM-002 — Lab Sample ID: 240-50057-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	14		8.0	2.4	ug/L	8		8260B	Total/NA
Vinyl chloride	9.1		8.0	2.3	ug/L	8		8260B	Total/NA
cis-1,2-Dichloroethene	260		8.0	2.1	ug/L	8		8260B	Total/NA
trans-1,2-Dichloroethene	14		8.0	2.4	ug/L	8		8260B	Total/NA

Client Sample ID: GW-042715-SM-001 — Lab Sample ID: 240-50057-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	330	J	500	150	ug/L	500		8260B	Total/NA
Vinyl chloride	370	J	500	150	ug/L	500		8260B	Total/NA
cis-1,2-Dichloroethene	9500		500	130	ug/L	500		8260B	Total/NA
trans-1,2-Dichloroethene	200	J	500	150	ug/L	500		8260B	Total/NA

Client Sample ID: GW-042715-SM-002 — Lab Sample ID: 240-50057-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	360	J	500	150	ug/L	500		8260B	Total/NA
Trichloroethene	500		500	110	ug/L	500		8260B	Total/NA
Vinyl chloride	420	J	500	150	ug/L	500		8260B	Total/NA
cis-1,2-Dichloroethene	10000		500	130	ug/L	500		8260B	Total/NA
trans-1,2-Dichloroethene	250	J	500	150	ug/L	500		8260B	Total/NA

Client Sample ID: GW-042715-SM-003 — Lab Sample ID: 240-50057-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	26		25	7.5	ug/L	25		8260B	Total/NA
Methylene Chloride	8.3	J	25	8.3	ug/L	25		8260B	Total/NA
Vinyl chloride	110		25	7.3	ug/L	25		8260B	Total/NA
cis-1,2-Dichloroethene	450		25	6.5	ug/L	25		8260B	Total/NA
trans-1,2-Dichloroethene	34		25	7.5	ug/L	25		8260B	Total/NA

Client Sample ID: GW-042715-SM-004 — Lab Sample ID: 240-50057-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	130		5.7	1.5	ug/L	5.71		8260B	Total/NA
trans-1,2-Dichloroethene	1.8	J	5.7	1.7	ug/L	5.71		8260B	Total/NA

Client Sample ID: GW-042815-SM-005 — Lab Sample ID: 240-50057-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	710		33	8.7	ug/L	33.33		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-042815-SM-005 (Continued) — Lab Sample ID: 240-50057-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	19	J	33	10	ug/L	33.33		8260B	Total/NA

Client Sample ID: GW-042815-SM-006 — Lab Sample ID: 240-50057-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.6	J	10	0.94	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.30	J	1.0	0.26	ug/L	1		8260B	Total/NA

Client Sample ID: GW-042815-SM-007 — Lab Sample ID: 240-50057-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	150	J	250	75	ug/L	250		8260B	Total/NA
Trichloroethene	1500		250	55	ug/L	250		8260B	Total/NA
Vinyl chloride	180	J	250	73	ug/L	250		8260B	Total/NA
cis-1,2-Dichloroethene	5800		250	65	ug/L	250		8260B	Total/NA
trans-1,2-Dichloroethene	130	J	250	75	ug/L	250		8260B	Total/NA

Client Sample ID: GW-042815-SM-008 — Lab Sample ID: 240-50057-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	160	J	250	75	ug/L	250		8260B	Total/NA
Methylene Chloride	110	J	250	83	ug/L	250		8260B	Total/NA
Trichloroethene	1500		250	55	ug/L	250		8260B	Total/NA
Vinyl chloride	170	J	250	73	ug/L	250		8260B	Total/NA
cis-1,2-Dichloroethene	5900		250	65	ug/L	250		8260B	Total/NA
trans-1,2-Dichloroethene	150	J	250	75	ug/L	250		8260B	Total/NA

Client Sample ID: GW-042815-SM-009 — Lab Sample ID: 240-50057-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	260	J	500	150	ug/L	500		8260B	Total/NA
Ethylbenzene	670		500	130	ug/L	500		8260B	Total/NA
Toluene	1900		500	120	ug/L	500		8260B	Total/NA
Vinyl chloride	630		500	150	ug/L	500		8260B	Total/NA
Xylenes, Total	1700		1000	260	ug/L	500		8260B	Total/NA
cis-1,2-Dichloroethene	11000		500	130	ug/L	500		8260B	Total/NA

Client Sample ID: GW-042815-SM-010 — Lab Sample ID: 240-50057-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	200	J	330	100	ug/L	333.33		8260B	Total/NA
Methylene Chloride	140	J	330	110	ug/L	333.33		8260B	Total/NA
Trichloroethene	8300		330	73	ug/L	333.33		8260B	Total/NA
1,1,1-Trichloroethane	420		330	150	ug/L	333.33		8260B	Total/NA
cis-1,2-Dichloroethene	4500		330	87	ug/L	333.33		8260B	Total/NA

Client Sample ID: GW-042815-SM-011 — Lab Sample ID: 240-50057-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	70	J	170	55	ug/L	166.67		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-042815-SM-011 (Continued) — Lab Sample ID: 240-50057-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	330		170	37	ug/L	166.67		8260B	Total/NA
Vinyl chloride	1900		170	48	ug/L	166.67		8260B	Total/NA
cis-1,2-Dichloroethene	3800		170	43	ug/L	166.67		8260B	Total/NA

Client Sample ID: GW-042815-SM-012 — Lab Sample ID: 240-50057-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	140		5.7	1.3	ug/L	5.71		8260B	Total/NA
Vinyl chloride	2.4	J	5.7	1.7	ug/L	5.71		8260B	Total/NA
cis-1,2-Dichloroethene	7.8		5.7	1.5	ug/L	5.71		8260B	Total/NA

Client Sample ID: GW-042815-SM-013 — Lab Sample ID: 240-50057-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.4	J	57	5.4	ug/L	5.71		8260B	Total/NA
Trichloroethene	160		5.7	1.3	ug/L	5.71		8260B	Total/NA
Vinyl chloride	2.6	J	5.7	1.7	ug/L	5.71		8260B	Total/NA
cis-1,2-Dichloroethene	7.7		5.7	1.5	ug/L	5.71		8260B	Total/NA

Client Sample ID: GW-042815-SM-014 — Lab Sample ID: 240-50057-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	280	J	330	100	ug/L	333.33		8260B	Total/NA
Trichloroethene	320	J	330	73	ug/L	333.33		8260B	Total/NA
Vinyl chloride	430		330	97	ug/L	333.33		8260B	Total/NA
cis-1,2-Dichloroethene	7500	F1	330	87	ug/L	333.33		8260B	Total/NA
trans-1,2-Dichloroethene	150	J	330	100	ug/L	333.33		8260B	Total/NA

Client Sample ID: RB-042815-SM-001 — Lab Sample ID: 240-50057-17

No Detections.

Client Sample ID: RB-042815-SM-002 — Lab Sample ID: 240-50057-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J	10	0.94	ug/L	1		8260B	Total/NA
Methylene Chloride	0.34	J	1.0	0.33	ug/L	1		8260B	Total/NA

Client Sample ID: GW-042915-SM-015 — Lab Sample ID: 240-50057-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	130		25	7.3	ug/L	25		8260B	Total/NA
cis-1,2-Dichloroethene	600		25	6.5	ug/L	25		8260B	Total/NA

Client Sample ID: GW-042915-SM-016 — Lab Sample ID: 240-50057-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	130	J	200	58	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene	4100		200	52	ug/L	200		8260B	Total/NA
trans-1,2-Dichloroethene	190	J	200	60	ug/L	200		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-50057-1

Client Sample ID: GW-042915-SM-017 — Lab Sample ID: 240-50057-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	460		330	97	ug/L	333.33		8260B	Total/NA
cis-1,2-Dichloroethene	6400		330	87	ug/L	333.33		8260B	Total/NA
trans-1,2-Dichloroethene	120	J	330	100	ug/L	333.33		8260B	Total/NA

Client Sample ID: GW-042915-SM-018 — Lab Sample ID: 240-50057-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	150	J	200	58	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene	4500		200	52	ug/L	200		8260B	Total/NA

Client Sample ID: GW-042915-SM-019 — Lab Sample ID: 240-50057-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	150	J	200	58	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene	4800		200	52	ug/L	200		8260B	Total/NA

Client Sample ID: GW-042915-SM-020 — Lab Sample ID: 240-50057-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	150		100	29	ug/L	100		8260B	Total/NA
cis-1,2-Dichloroethene	2400		100	26	ug/L	100		8260B	Total/NA
trans-1,2-Dichloroethene	99	J	100	30	ug/L	100		8260B	Total/NA

Client Sample ID: RB-042915-SM-003 — Lab Sample ID: 240-50057-25

No Detections.

Client Sample ID: TB-042915-SM-001 — Lab Sample ID: 240-50057-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.91	J	1.0	0.33	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SW-042715-SM-001
Date Collected: 04/27/15 10:06
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.4**	**J**	13	1.2	ug/L			05/07/15 17:12	1.25
Benzene	1.3	U	1.3	0.44	ug/L			05/07/15 17:12	1.25
Dichlorobromomethane	1.3	U	1.3	0.36	ug/L			05/07/15 17:12	1.25
Bromoform	1.3	U	1.3	0.70	ug/L			05/07/15 17:12	1.25
Bromomethane	1.3	U	1.3	0.55	ug/L			05/07/15 17:12	1.25
2-Butanone (MEK)	13	U	13	0.66	ug/L			05/07/15 17:12	1.25
Carbon disulfide	1.3	U	1.3	0.48	ug/L			05/07/15 17:12	1.25
Carbon tetrachloride	1.3	U	1.3	0.54	ug/L			05/07/15 17:12	1.25
Chlorobenzene	1.3	U	1.3	0.31	ug/L			05/07/15 17:12	1.25
Chloroethane	1.3	U	1.3	0.40	ug/L			05/07/15 17:12	1.25
Chloroform	1.3	U	1.3	0.31	ug/L			05/07/15 17:12	1.25
Chloromethane	1.3	U	1.3	0.55	ug/L			05/07/15 17:12	1.25
1,1-Dichloroethane	**1.4**		1.3	0.38	ug/L			05/07/15 17:12	1.25
1,2-Dichloroethane	1.3	U	1.3	0.29	ug/L			05/07/15 17:12	1.25
1,1-Dichloroethene	1.3	U	1.3	0.56	ug/L			05/07/15 17:12	1.25
1,2-Dichloropropane	1.3	U	1.3	0.31	ug/L			05/07/15 17:12	1.25
cis-1,3-Dichloropropene	1.3	U	1.3	0.58	ug/L			05/07/15 17:12	1.25
trans-1,3-Dichloropropene	1.3	U	1.3	0.70	ug/L			05/07/15 17:12	1.25
Ethylbenzene	1.3	U	1.3	0.31	ug/L			05/07/15 17:12	1.25
2-Hexanone	13	U	13	0.60	ug/L			05/07/15 17:12	1.25
Methylene Chloride	1.3	U	1.3	0.41	ug/L			05/07/15 17:12	1.25
4-Methyl-2-pentanone (MIBK)	13	U	13	1.2	ug/L			05/07/15 17:12	1.25
Styrene	1.3	U	1.3	0.56	ug/L			05/07/15 17:12	1.25
1,1,2,2-Tetrachloroethane	1.3	U	1.3	0.28	ug/L			05/07/15 17:12	1.25
Tetrachloroethene	1.3	U	1.3	0.39	ug/L			05/07/15 17:12	1.25
Toluene	1.3	U	1.3	0.29	ug/L			05/07/15 17:12	1.25
Trichloroethene	1.3	U	1.3	0.28	ug/L			05/07/15 17:12	1.25
Vinyl chloride	**5.3**		1.3	0.36	ug/L			05/07/15 17:12	1.25
Xylenes, Total	2.5	U	2.5	0.65	ug/L			05/07/15 17:12	1.25
1,1,1-Trichloroethane	1.3	U	1.3	0.55	ug/L			05/07/15 17:12	1.25
1,1,2-Trichloroethane	1.3	U	1.3	0.30	ug/L			05/07/15 17:12	1.25
Cyclohexane	1.3	U	1.3	0.56	ug/L			05/07/15 17:12	1.25
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	1.0	ug/L			05/07/15 17:12	1.25
Ethylene Dibromide	1.3	U	1.3	0.40	ug/L			05/07/15 17:12	1.25
Dichlorodifluoromethane	1.3	U	1.3	0.40	ug/L			05/07/15 17:12	1.25
cis-1,2-Dichloroethene	**33**		1.3	0.33	ug/L			05/07/15 17:12	1.25
trans-1,2-Dichloroethene	**1.1**	**J**	1.3	0.38	ug/L			05/07/15 17:12	1.25
Isopropylbenzene	1.3	U	1.3	0.44	ug/L			05/07/15 17:12	1.25
Methyl acetate	13	U	13	2.8	ug/L			05/07/15 17:12	1.25
Methyl tert-butyl ether	1.3	U	1.3	0.25	ug/L			05/07/15 17:12	1.25
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U	1.3	0.56	ug/L			05/07/15 17:12	1.25
1,2,4-Trichlorobenzene	1.3	U	1.3	0.40	ug/L			05/07/15 17:12	1.25
1,2-Dichlorobenzene	1.3	U	1.3	0.31	ug/L			05/07/15 17:12	1.25
1,3-Dichlorobenzene	1.3	U	1.3	0.24	ug/L			05/07/15 17:12	1.25
1,4-Dichlorobenzene	1.3	U	1.3	0.34	ug/L			05/07/15 17:12	1.25
Trichlorofluoromethane	1.3	U	1.3	0.61	ug/L			05/07/15 17:12	1.25
Chlorodibromomethane	1.3	U	1.3	0.54	ug/L			05/07/15 17:12	1.25
Methylcyclohexane	1.3	U	1.3	0.54	ug/L			05/07/15 17:12	1.25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 129*		*05/07/15 17:12*	*1.25*
4-Bromofluorobenzene (Surr)	*93*		*66 - 120*		*05/07/15 17:12*	*1.25*
Toluene-d8 (Surr)	*96*		*74 - 120*		*05/07/15 17:12*	*1.25*
Dibromofluoromethane (Surr)	*96*		*75 - 121*		*05/07/15 17:12*	*1.25*

Client Sample ID: SW-042715-SM-002 **Lab Sample ID: 240-50057-2**
Date Collected: 04/27/15 10:10 **Matrix: Water**
Date Received: 04/30/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	80	U	80	7.5	ug/L			05/11/15 14:35	8
Benzene	8.0	U	8.0	2.8	ug/L			05/11/15 14:35	8
Dichlorobromomethane	8.0	U	8.0	2.3	ug/L			05/11/15 14:35	8
Bromoform	8.0	U	8.0	4.5	ug/L			05/11/15 14:35	8
Bromomethane	8.0	U	8.0	3.5	ug/L			05/11/15 14:35	8
2-Butanone (MEK)	80	U	80	4.2	ug/L			05/11/15 14:35	8
Carbon disulfide	8.0	U	8.0	3.0	ug/L			05/11/15 14:35	8
Carbon tetrachloride	8.0	U	8.0	3.4	ug/L			05/11/15 14:35	8
Chlorobenzene	8.0	U	8.0	2.0	ug/L			05/11/15 14:35	8
Chloroethane	8.0	U	8.0	2.6	ug/L			05/11/15 14:35	8
Chloroform	8.0	U	8.0	2.0	ug/L			05/11/15 14:35	8
Chloromethane	8.0	U	8.0	3.5	ug/L			05/11/15 14:35	8
1,1-Dichloroethane	**14**		8.0	2.4	ug/L			05/11/15 14:35	8
1,2-Dichloroethane	8.0	U	8.0	1.8	ug/L			05/11/15 14:35	8
1,1-Dichloroethene	8.0	U	8.0	3.6	ug/L			05/11/15 14:35	8
1,2-Dichloropropane	8.0	U	8.0	2.0	ug/L			05/11/15 14:35	8
cis-1,3-Dichloropropene	8.0	U	8.0	3.7	ug/L			05/11/15 14:35	8
trans-1,3-Dichloropropene	8.0	U	8.0	4.5	ug/L			05/11/15 14:35	8
Ethylbenzene	8.0	U	8.0	2.0	ug/L			05/11/15 14:35	8
2-Hexanone	80	U	80	3.8	ug/L			05/11/15 14:35	8
Methylene Chloride	8.0	U	8.0	2.6	ug/L			05/11/15 14:35	8
4-Methyl-2-pentanone (MIBK)	80	U	80	7.9	ug/L			05/11/15 14:35	8
Styrene	8.0	U	8.0	3.6	ug/L			05/11/15 14:35	8
1,1,2,2-Tetrachloroethane	8.0	U	8.0	1.8	ug/L			05/11/15 14:35	8
Tetrachloroethene	8.0	U	8.0	2.5	ug/L			05/11/15 14:35	8
Toluene	8.0	U	8.0	1.8	ug/L			05/11/15 14:35	8
Trichloroethene	8.0	U	8.0	1.8	ug/L			05/11/15 14:35	8
Vinyl chloride	**9.1**		8.0	2.3	ug/L			05/11/15 14:35	8
Xylenes, Total	16	U	16	4.2	ug/L			05/11/15 14:35	8
1,1,1-Trichloroethane	8.0	U	8.0	3.5	ug/L			05/11/15 14:35	8
1,1,2-Trichloroethane	8.0	U	8.0	1.9	ug/L			05/11/15 14:35	8
Cyclohexane	8.0	U	8.0	3.6	ug/L			05/11/15 14:35	8
1,2-Dibromo-3-Chloropropane	16	U	16	6.6	ug/L			05/11/15 14:35	8
Ethylene Dibromide	8.0	U	8.0	2.6	ug/L			05/11/15 14:35	8
Dichlorodifluoromethane	8.0	U	8.0	2.6	ug/L			05/11/15 14:35	8
cis-1,2-Dichloroethene	**260**		8.0	2.1	ug/L			05/11/15 14:35	8
trans-1,2-Dichloroethene	**14**		8.0	2.4	ug/L			05/11/15 14:35	8
Isopropylbenzene	8.0	U	8.0	2.8	ug/L			05/11/15 14:35	8
Methyl acetate	80	U	80	18	ug/L			05/11/15 14:35	8
Methyl tert-butyl ether	8.0	U	8.0	1.6	ug/L			05/11/15 14:35	8
1,1,2-Trichloro-1,2,2-trifluoroethane	8.0	U	8.0	3.6	ug/L			05/11/15 14:35	8
1,2,4-Trichlorobenzene	8.0	U	8.0	2.6	ug/L			05/11/15 14:35	8
1,2-Dichlorobenzene	8.0	U	8.0	2.0	ug/L			05/11/15 14:35	8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SW-042715-SM-002
Date Collected: 04/27/15 10:10
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	8.0	U	8.0	1.5	ug/L			05/11/15 14:35	8
1,4-Dichlorobenzene	8.0	U	8.0	2.2	ug/L			05/11/15 14:35	8
Trichlorofluoromethane	8.0	U	8.0	3.9	ug/L			05/11/15 14:35	8
Chlorodibromomethane	8.0	U	8.0	3.4	ug/L			05/11/15 14:35	8
Methylcyclohexane	8.0	U	8.0	3.4	ug/L			05/11/15 14:35	8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*63 - 129*		*05/11/15 14:35*	*8*
4-Bromofluorobenzene (Surr)	*78*		*66 - 120*		*05/11/15 14:35*	*8*
Toluene-d8 (Surr)	*94*		*74 - 120*		*05/11/15 14:35*	*8*
Dibromofluoromethane (Surr)	*92*		*75 - 121*		*05/11/15 14:35*	*8*

Client Sample ID: GW-042715-SM-001
Date Collected: 04/27/15 10:17
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5000	U	5000	470	ug/L			05/07/15 17:58	500
Benzene	500	U	500	180	ug/L			05/07/15 17:58	500
Dichlorobromomethane	500	U	500	150	ug/L			05/07/15 17:58	500
Bromoform	500	U	500	280	ug/L			05/07/15 17:58	500
Bromomethane	500	U	500	220	ug/L			05/07/15 17:58	500
2-Butanone (MEK)	5000	U	5000	270	ug/L			05/07/15 17:58	500
Carbon disulfide	500	U	500	190	ug/L			05/07/15 17:58	500
Carbon tetrachloride	500	U	500	220	ug/L			05/07/15 17:58	500
Chlorobenzene	500	U	500	130	ug/L			05/07/15 17:58	500
Chloroethane	500	U	500	160	ug/L			05/07/15 17:58	500
Chloroform	500	U	500	130	ug/L			05/07/15 17:58	500
Chloromethane	500	U	500	220	ug/L			05/07/15 17:58	500
1,1-Dichloroethane	**330**	**J**	500	150	ug/L			05/07/15 17:58	500
1,2-Dichloroethane	500	U	500	120	ug/L			05/07/15 17:58	500
1,1-Dichloroethene	500	U	500	230	ug/L			05/07/15 17:58	500
1,2-Dichloropropane	500	U	500	130	ug/L			05/07/15 17:58	500
cis-1,3-Dichloropropene	500	U	500	230	ug/L			05/07/15 17:58	500
trans-1,3-Dichloropropene	500	U	500	280	ug/L			05/07/15 17:58	500
Ethylbenzene	500	U	500	130	ug/L			05/07/15 17:58	500
2-Hexanone	5000	U	5000	240	ug/L			05/07/15 17:58	500
Methylene Chloride	500	U	500	170	ug/L			05/07/15 17:58	500
4-Methyl-2-pentanone (MIBK)	5000	U	5000	500	ug/L			05/07/15 17:58	500
Styrene	500	U	500	230	ug/L			05/07/15 17:58	500
1,1,2,2-Tetrachloroethane	500	U	500	110	ug/L			05/07/15 17:58	500
Tetrachloroethene	500	U	500	160	ug/L			05/07/15 17:58	500
Toluene	500	U	500	120	ug/L			05/07/15 17:58	500
Trichloroethene	500	U	500	110	ug/L			05/07/15 17:58	500
Vinyl chloride	**370**	**J**	500	150	ug/L			05/07/15 17:58	500
Xylenes, Total	1000	U	1000	260	ug/L			05/07/15 17:58	500
1,1,1-Trichloroethane	500	U	500	220	ug/L			05/07/15 17:58	500
1,1,2-Trichloroethane	500	U	500	120	ug/L			05/07/15 17:58	500
Cyclohexane	500	U	500	230	ug/L			05/07/15 17:58	500
1,2-Dibromo-3-Chloropropane	1000	U	1000	410	ug/L			05/07/15 17:58	500
Ethylene Dibromide	500	U	500	160	ug/L			05/07/15 17:58	500

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042715-SM-001
Date Collected: 04/27/15 10:17
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	500	U	500	160	ug/L			05/07/15 17:58	500
cis-1,2-Dichloroethene	**9500**		500	130	ug/L			05/07/15 17:58	500
trans-1,2-Dichloroethene	**200**	**J**	500	150	ug/L			05/07/15 17:58	500
Isopropylbenzene	500	U	500	180	ug/L			05/07/15 17:58	500
Methyl acetate	5000	U	5000	1100	ug/L			05/07/15 17:58	500
Methyl tert-butyl ether	500	U	500	100	ug/L			05/07/15 17:58	500
1,1,2-Trichloro-1,2,2-trifluoroethane	500	U	500	230	ug/L			05/07/15 17:58	500
1,2,4-Trichlorobenzene	500	U	500	160	ug/L			05/07/15 17:58	500
1,2-Dichlorobenzene	500	U	500	130	ug/L			05/07/15 17:58	500
1,3-Dichlorobenzene	500	U	500	95	ug/L			05/07/15 17:58	500
1,4-Dichlorobenzene	500	U	500	140	ug/L			05/07/15 17:58	500
Trichlorofluoromethane	500	U	500	250	ug/L			05/07/15 17:58	500
Chlorodibromomethane	500	U	500	220	ug/L			05/07/15 17:58	500
Methylcyclohexane	500	U	500	220	ug/L			05/07/15 17:58	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 129*		*05/07/15 17:58*	*500*
4-Bromofluorobenzene (Surr)	*92*		*66 - 120*		*05/07/15 17:58*	*500*
Toluene-d8 (Surr)	*95*		*74 - 120*		*05/07/15 17:58*	*500*
Dibromofluoromethane (Surr)	*98*		*75 - 121*		*05/07/15 17:58*	*500*

Client Sample ID: GW-042715-SM-002
Date Collected: 04/27/15 11:03
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5000	U	5000	470	ug/L			05/07/15 18:21	500
Benzene	500	U	500	180	ug/L			05/07/15 18:21	500
Dichlorobromomethane	500	U	500	150	ug/L			05/07/15 18:21	500
Bromoform	500	U	500	280	ug/L			05/07/15 18:21	500
Bromomethane	500	U	500	220	ug/L			05/07/15 18:21	500
2-Butanone (MEK)	5000	U	5000	270	ug/L			05/07/15 18:21	500
Carbon disulfide	500	U	500	190	ug/L			05/07/15 18:21	500
Carbon tetrachloride	500	U	500	220	ug/L			05/07/15 18:21	500
Chlorobenzene	500	U	500	130	ug/L			05/07/15 18:21	500
Chloroethane	500	U	500	160	ug/L			05/07/15 18:21	500
Chloroform	500	U	500	130	ug/L			05/07/15 18:21	500
Chloromethane	500	U	500	220	ug/L			05/07/15 18:21	500
1,1-Dichloroethane	**360**	**J**	500	150	ug/L			05/07/15 18:21	500
1,2-Dichloroethane	500	U	500	120	ug/L			05/07/15 18:21	500
1,1-Dichloroethene	500	U	500	230	ug/L			05/07/15 18:21	500
1,2-Dichloropropane	500	U	500	130	ug/L			05/07/15 18:21	500
cis-1,3-Dichloropropene	500	U	500	230	ug/L			05/07/15 18:21	500
trans-1,3-Dichloropropene	500	U	500	280	ug/L			05/07/15 18:21	500
Ethylbenzene	500	U	500	130	ug/L			05/07/15 18:21	500
2-Hexanone	5000	U	5000	240	ug/L			05/07/15 18:21	500
Methylene Chloride	500	U	500	170	ug/L			05/07/15 18:21	500
4-Methyl-2-pentanone (MIBK)	5000	U	5000	500	ug/L			05/07/15 18:21	500
Styrene	500	U	500	230	ug/L			05/07/15 18:21	500
1,1,2,2-Tetrachloroethane	500	U	500	110	ug/L			05/07/15 18:21	500
Tetrachloroethene	500	U	500	160	ug/L			05/07/15 18:21	500

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042715-SM-002
Date Collected: 04/27/15 11:03
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	500	U	500	120	ug/L			05/07/15 18:21	500
Trichloroethene	**500**		500	110	ug/L			05/07/15 18:21	500
Vinyl chloride	**420**	**J**	500	150	ug/L			05/07/15 18:21	500
Xylenes, Total	1000	U	1000	260	ug/L			05/07/15 18:21	500
1,1,1-Trichloroethane	500	U	500	220	ug/L			05/07/15 18:21	500
1,1,2-Trichloroethane	500	U	500	120	ug/L			05/07/15 18:21	500
Cyclohexane	500	U	500	230	ug/L			05/07/15 18:21	500
1,2-Dibromo-3-Chloropropane	1000	U	1000	410	ug/L			05/07/15 18:21	500
Ethylene Dibromide	500	U	500	160	ug/L			05/07/15 18:21	500
Dichlorodifluoromethane	500	U	500	160	ug/L			05/07/15 18:21	500
cis-1,2-Dichloroethene	**10000**		500	130	ug/L			05/07/15 18:21	500
trans-1,2-Dichloroethene	**250**	**J**	500	150	ug/L			05/07/15 18:21	500
Isopropylbenzene	500	U	500	180	ug/L			05/07/15 18:21	500
Methyl acetate	5000	U	5000	1100	ug/L			05/07/15 18:21	500
Methyl tert-butyl ether	500	U	500	100	ug/L			05/07/15 18:21	500
1,1,2-Trichloro-1,2,2-trifluoroethane	500	U	500	230	ug/L			05/07/15 18:21	500
1,2,4-Trichlorobenzene	500	U	500	160	ug/L			05/07/15 18:21	500
1,2-Dichlorobenzene	500	U	500	130	ug/L			05/07/15 18:21	500
1,3-Dichlorobenzene	500	U	500	95	ug/L			05/07/15 18:21	500
1,4-Dichlorobenzene	500	U	500	140	ug/L			05/07/15 18:21	500
Trichlorofluoromethane	500	U	500	250	ug/L			05/07/15 18:21	500
Chlorodibromomethane	500	U	500	220	ug/L			05/07/15 18:21	500
Methylcyclohexane	500	U	500	220	ug/L			05/07/15 18:21	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 129*		*05/07/15 18:21*	*500*
4-Bromofluorobenzene (Surr)	*90*		*66 - 120*		*05/07/15 18:21*	*500*
Toluene-d8 (Surr)	*98*		*74 - 120*		*05/07/15 18:21*	*500*
Dibromofluoromethane (Surr)	*95*		*75 - 121*		*05/07/15 18:21*	*500*

Client Sample ID: GW-042715-SM-003
Date Collected: 04/27/15 11:57
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250	U	250	24	ug/L			05/07/15 18:44	25
Benzene	25	U	25	8.8	ug/L			05/07/15 18:44	25
Dichlorobromomethane	25	U	25	7.3	ug/L			05/07/15 18:44	25
Bromoform	25	U	25	14	ug/L			05/07/15 18:44	25
Bromomethane	25	U	25	11	ug/L			05/07/15 18:44	25
2-Butanone (MEK)	250	U	250	13	ug/L			05/07/15 18:44	25
Carbon disulfide	25	U	25	9.5	ug/L			05/07/15 18:44	25
Carbon tetrachloride	25	U	25	11	ug/L			05/07/15 18:44	25
Chlorobenzene	25	U	25	6.3	ug/L			05/07/15 18:44	25
Chloroethane	25	U	25	8.0	ug/L			05/07/15 18:44	25
Chloroform	25	U	25	6.3	ug/L			05/07/15 18:44	25
Chloromethane	25	U	25	11	ug/L			05/07/15 18:44	25
1,1-Dichloroethane	**26**		25	7.5	ug/L			05/07/15 18:44	25
1,2-Dichloroethane	25	U	25	5.8	ug/L			05/07/15 18:44	25
1,1-Dichloroethene	25	U	25	11	ug/L			05/07/15 18:44	25
1,2-Dichloropropane	25	U	25	6.3	ug/L			05/07/15 18:44	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042715-SM-003
Date Collected: 04/27/15 11:57
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	25	U	25	12	ug/L			05/07/15 18:44	25
trans-1,3-Dichloropropene	25	U	25	14	ug/L			05/07/15 18:44	25
Ethylbenzene	25	U	25	6.3	ug/L			05/07/15 18:44	25
2-Hexanone	250	U	250	12	ug/L			05/07/15 18:44	25
Methylene Chloride	**8.3**	**J**	25	8.3	ug/L			05/07/15 18:44	25
4-Methyl-2-pentanone (MIBK)	250	U	250	25	ug/L			05/07/15 18:44	25
Styrene	25	U	25	11	ug/L			05/07/15 18:44	25
1,1,2,2-Tetrachloroethane	25	U	25	5.5	ug/L			05/07/15 18:44	25
Tetrachloroethene	25	U	25	7.8	ug/L			05/07/15 18:44	25
Toluene	25	U	25	5.8	ug/L			05/07/15 18:44	25
Trichloroethene	25	U	25	5.5	ug/L			05/07/15 18:44	25
Vinyl chloride	**110**		25	7.3	ug/L			05/07/15 18:44	25
Xylenes, Total	50	U	50	13	ug/L			05/07/15 18:44	25
1,1,1-Trichloroethane	25	U	25	11	ug/L			05/07/15 18:44	25
1,1,2-Trichloroethane	25	U	25	6.0	ug/L			05/07/15 18:44	25
Cyclohexane	25	U	25	11	ug/L			05/07/15 18:44	25
1,2-Dibromo-3-Chloropropane	50	U	50	21	ug/L			05/07/15 18:44	25
Ethylene Dibromide	25	U	25	8.0	ug/L			05/07/15 18:44	25
Dichlorodifluoromethane	25	U	25	8.0	ug/L			05/07/15 18:44	25
cis-1,2-Dichloroethene	**450**		25	6.5	ug/L			05/07/15 18:44	25
trans-1,2-Dichloroethene	**34**		25	7.5	ug/L			05/07/15 18:44	25
Isopropylbenzene	25	U	25	8.8	ug/L			05/07/15 18:44	25
Methyl acetate	250	U	250	57	ug/L			05/07/15 18:44	25
Methyl tert-butyl ether	25	U	25	5.0	ug/L			05/07/15 18:44	25
1,1,2-Trichloro-1,2,2-trifluoroethane	25	U	25	11	ug/L			05/07/15 18:44	25
1,2,4-Trichlorobenzene	25	U	25	8.0	ug/L			05/07/15 18:44	25
1,2-Dichlorobenzene	25	U	25	6.3	ug/L			05/07/15 18:44	25
1,3-Dichlorobenzene	25	U	25	4.8	ug/L			05/07/15 18:44	25
1,4-Dichlorobenzene	25	U	25	6.8	ug/L			05/07/15 18:44	25
Trichlorofluoromethane	25	U	25	12	ug/L			05/07/15 18:44	25
Chlorodibromomethane	25	U	25	11	ug/L			05/07/15 18:44	25
Methylcyclohexane	25	U	25	11	ug/L			05/07/15 18:44	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 129*		*05/07/15 18:44*	*25*
4-Bromofluorobenzene (Surr)	*92*		*66 - 120*		*05/07/15 18:44*	*25*
Toluene-d8 (Surr)	*95*		*74 - 120*		*05/07/15 18:44*	*25*
Dibromofluoromethane (Surr)	*100*		*75 - 121*		*05/07/15 18:44*	*25*

Client Sample ID: GW-042715-SM-004
Date Collected: 04/27/15 12:47
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	57	U	57	5.4	ug/L			05/07/15 19:06	5.71
Benzene	5.7	U	5.7	2.0	ug/L			05/07/15 19:06	5.71
Dichlorobromomethane	5.7	U	5.7	1.7	ug/L			05/07/15 19:06	5.71
Bromoform	5.7	U	5.7	3.2	ug/L			05/07/15 19:06	5.71
Bromomethane	5.7	U	5.7	2.5	ug/L			05/07/15 19:06	5.71
2-Butanone (MEK)	57	U	57	3.0	ug/L			05/07/15 19:06	5.71
Carbon disulfide	5.7	U	5.7	2.2	ug/L			05/07/15 19:06	5.71

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042715-SM-004
Date Collected: 04/27/15 12:47
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	5.7	U	5.7	2.5	ug/L			05/07/15 19:06	5.71
Chlorobenzene	5.7	U	5.7	1.4	ug/L			05/07/15 19:06	5.71
Chloroethane	5.7	U	5.7	1.8	ug/L			05/07/15 19:06	5.71
Chloroform	5.7	U	5.7	1.4	ug/L			05/07/15 19:06	5.71
Chloromethane	5.7	U	5.7	2.5	ug/L			05/07/15 19:06	5.71
1,1-Dichloroethane	5.7	U	5.7	1.7	ug/L			05/07/15 19:06	5.71
1,2-Dichloroethane	5.7	U	5.7	1.3	ug/L			05/07/15 19:06	5.71
1,1-Dichloroethene	5.7	U	5.7	2.6	ug/L			05/07/15 19:06	5.71
1,2-Dichloropropane	5.7	U	5.7	1.4	ug/L			05/07/15 19:06	5.71
cis-1,3-Dichloropropene	5.7	U	5.7	2.6	ug/L			05/07/15 19:06	5.71
trans-1,3-Dichloropropene	5.7	U	5.7	3.2	ug/L			05/07/15 19:06	5.71
Ethylbenzene	5.7	U	5.7	1.4	ug/L			05/07/15 19:06	5.71
2-Hexanone	57	U	57	2.7	ug/L			05/07/15 19:06	5.71
Methylene Chloride	5.7	U	5.7	1.9	ug/L			05/07/15 19:06	5.71
4-Methyl-2-pentanone (MIBK)	57	U	57	5.7	ug/L			05/07/15 19:06	5.71
Styrene	5.7	U	5.7	2.6	ug/L			05/07/15 19:06	5.71
1,1,2,2-Tetrachloroethane	5.7	U	5.7	1.3	ug/L			05/07/15 19:06	5.71
Tetrachloroethene	5.7	U	5.7	1.8	ug/L			05/07/15 19:06	5.71
Toluene	5.7	U	5.7	1.3	ug/L			05/07/15 19:06	5.71
Trichloroethene	5.7	U	5.7	1.3	ug/L			05/07/15 19:06	5.71
Vinyl chloride	5.7	U	5.7	1.7	ug/L			05/07/15 19:06	5.71
Xylenes, Total	11	U	11	3.0	ug/L			05/07/15 19:06	5.71
1,1,1-Trichloroethane	5.7	U	5.7	2.5	ug/L			05/07/15 19:06	5.71
1,1,2-Trichloroethane	5.7	U	5.7	1.4	ug/L			05/07/15 19:06	5.71
Cyclohexane	5.7	U	5.7	2.6	ug/L			05/07/15 19:06	5.71
1,2-Dibromo-3-Chloropropane	11	U	11	4.7	ug/L			05/07/15 19:06	5.71
Ethylene Dibromide	5.7	U	5.7	1.8	ug/L			05/07/15 19:06	5.71
Dichlorodifluoromethane	5.7	U	5.7	1.8	ug/L			05/07/15 19:06	5.71
cis-1,2-Dichloroethene	**130**		5.7	1.5	ug/L			05/07/15 19:06	5.71
trans-1,2-Dichloroethene	**1.8**	**J**	5.7	1.7	ug/L			05/07/15 19:06	5.71
Isopropylbenzene	5.7	U	5.7	2.0	ug/L			05/07/15 19:06	5.71
Methyl acetate	57	U	57	13	ug/L			05/07/15 19:06	5.71
Methyl tert-butyl ether	5.7	U	5.7	1.1	ug/L			05/07/15 19:06	5.71
1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U	5.7	2.6	ug/L			05/07/15 19:06	5.71
1,2,4-Trichlorobenzene	5.7	U	5.7	1.8	ug/L			05/07/15 19:06	5.71
1,2-Dichlorobenzene	5.7	U	5.7	1.4	ug/L			05/07/15 19:06	5.71
1,3-Dichlorobenzene	5.7	U	5.7	1.1	ug/L			05/07/15 19:06	5.71
1,4-Dichlorobenzene	5.7	U	5.7	1.5	ug/L			05/07/15 19:06	5.71
Trichlorofluoromethane	5.7	U	5.7	2.8	ug/L			05/07/15 19:06	5.71
Chlorodibromomethane	5.7	U	5.7	2.5	ug/L			05/07/15 19:06	5.71
Methylcyclohexane	5.7	U	5.7	2.5	ug/L			05/07/15 19:06	5.71

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 129*		*05/07/15 19:06*	*5.71*
4-Bromofluorobenzene (Surr)	*93*		*66 - 120*		*05/07/15 19:06*	*5.71*
Toluene-d8 (Surr)	*96*		*74 - 120*		*05/07/15 19:06*	*5.71*
Dibromofluoromethane (Surr)	*98*		*75 - 121*		*05/07/15 19:06*	*5.71*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: GW-042815-SM-005
Date Collected: 04/28/15 08:17
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	330	U	330	31	ug/L			05/07/15 19:29	33.33
Benzene	33	U	33	12	ug/L			05/07/15 19:29	33.33
Dichlorobromomethane	33	U	33	9.7	ug/L			05/07/15 19:29	33.33
Bromoform	33	U	33	19	ug/L			05/07/15 19:29	33.33
Bromomethane	33	U	33	15	ug/L			05/07/15 19:29	33.33
2-Butanone (MEK)	330	U	330	18	ug/L			05/07/15 19:29	33.33
Carbon disulfide	33	U	33	13	ug/L			05/07/15 19:29	33.33
Carbon tetrachloride	33	U	33	14	ug/L			05/07/15 19:29	33.33
Chlorobenzene	33	U	33	8.3	ug/L			05/07/15 19:29	33.33
Chloroethane	33	U	33	11	ug/L			05/07/15 19:29	33.33
Chloroform	33	U	33	8.3	ug/L			05/07/15 19:29	33.33
Chloromethane	33	U	33	15	ug/L			05/07/15 19:29	33.33
1,1-Dichloroethane	33	U	33	10	ug/L			05/07/15 19:29	33.33
1,2-Dichloroethane	33	U	33	7.7	ug/L			05/07/15 19:29	33.33
1,1-Dichloroethene	33	U	33	15	ug/L			05/07/15 19:29	33.33
1,2-Dichloropropane	33	U	33	8.3	ug/L			05/07/15 19:29	33.33
cis-1,3-Dichloropropene	33	U	33	15	ug/L			05/07/15 19:29	33.33
trans-1,3-Dichloropropene	33	U	33	19	ug/L			05/07/15 19:29	33.33
Ethylbenzene	33	U	33	8.3	ug/L			05/07/15 19:29	33.33
2-Hexanone	330	U	330	16	ug/L			05/07/15 19:29	33.33
Methylene Chloride	33	U	33	11	ug/L			05/07/15 19:29	33.33
4-Methyl-2-pentanone (MIBK)	330	U	330	33	ug/L			05/07/15 19:29	33.33
Styrene	33	U	33	15	ug/L			05/07/15 19:29	33.33
1,1,2,2-Tetrachloroethane	33	U	33	7.3	ug/L			05/07/15 19:29	33.33
Tetrachloroethene	33	U	33	10	ug/L			05/07/15 19:29	33.33
Toluene	33	U	33	7.7	ug/L			05/07/15 19:29	33.33
Trichloroethene	33	U	33	7.3	ug/L			05/07/15 19:29	33.33
Vinyl chloride	33	U	33	9.7	ug/L			05/07/15 19:29	33.33
Xylenes, Total	67	U	67	17	ug/L			05/07/15 19:29	33.33
1,1,1-Trichloroethane	33	U	33	15	ug/L			05/07/15 19:29	33.33
1,1,2-Trichloroethane	33	U	33	8.0	ug/L			05/07/15 19:29	33.33
Cyclohexane	33	U	33	15	ug/L			05/07/15 19:29	33.33
1,2-Dibromo-3-Chloropropane	67	U	67	27	ug/L			05/07/15 19:29	33.33
Ethylene Dibromide	33	U	33	11	ug/L			05/07/15 19:29	33.33
Dichlorodifluoromethane	33	U	33	11	ug/L			05/07/15 19:29	33.33
cis-1,2-Dichloroethene	**710**		33	8.7	ug/L			05/07/15 19:29	33.33
trans-1,2-Dichloroethene	**19**	**J**	33	10	ug/L			05/07/15 19:29	33.33
Isopropylbenzene	33	U	33	12	ug/L			05/07/15 19:29	33.33
Methyl acetate	330	U	330	76	ug/L			05/07/15 19:29	33.33
Methyl tert-butyl ether	33	U	33	6.7	ug/L			05/07/15 19:29	33.33
1,1,2-Trichloro-1,2,2-trifluoroethane	33	U	33	15	ug/L			05/07/15 19:29	33.33
1,2,4-Trichlorobenzene	33	U	33	11	ug/L			05/07/15 19:29	33.33
1,2-Dichlorobenzene	33	U	33	8.3	ug/L			05/07/15 19:29	33.33
1,3-Dichlorobenzene	33	U	33	6.3	ug/L			05/07/15 19:29	33.33
1,4-Dichlorobenzene	33	U	33	9.0	ug/L			05/07/15 19:29	33.33
Trichlorofluoromethane	33	U	33	16	ug/L			05/07/15 19:29	33.33
Chlorodibromomethane	33	U	33	14	ug/L			05/07/15 19:29	33.33
Methylcyclohexane	33	U	33	14	ug/L			05/07/15 19:29	33.33

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 129		05/07/15 19:29	33.33
4-Bromofluorobenzene (Surr)	92		66 - 120		05/07/15 19:29	33.33
Toluene-d8 (Surr)	95		74 - 120		05/07/15 19:29	33.33
Dibromofluoromethane (Surr)	99		75 - 121		05/07/15 19:29	33.33

Client Sample ID: GW-042815-SM-006 — **Lab Sample ID: 240-50057-8**
Date Collected: 04/28/15 09:08 — **Matrix: Water**
Date Received: 04/30/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.6**	**J**	10	0.94	ug/L			05/07/15 19:52	1
Benzene	1.0	U	1.0	0.35	ug/L			05/07/15 19:52	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/07/15 19:52	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/07/15 19:52	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/07/15 19:52	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/07/15 19:52	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/07/15 19:52	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/07/15 19:52	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 19:52	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/07/15 19:52	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/07/15 19:52	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/07/15 19:52	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/07/15 19:52	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/07/15 19:52	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/07/15 19:52	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/07/15 19:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/07/15 19:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/07/15 19:52	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/07/15 19:52	1
2-Hexanone	10	U	10	0.48	ug/L			05/07/15 19:52	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/07/15 19:52	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/07/15 19:52	1
Styrene	1.0	U	1.0	0.45	ug/L			05/07/15 19:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/07/15 19:52	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/07/15 19:52	1
Toluene	1.0	U	1.0	0.23	ug/L			05/07/15 19:52	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/07/15 19:52	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/07/15 19:52	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/07/15 19:52	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/07/15 19:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/07/15 19:52	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/07/15 19:52	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/07/15 19:52	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/07/15 19:52	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/07/15 19:52	1
cis-1,2-Dichloroethene	**0.30**	**J**	1.0	0.26	ug/L			05/07/15 19:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/07/15 19:52	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/07/15 19:52	1
Methyl acetate	10	U	10	2.3	ug/L			05/07/15 19:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/07/15 19:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/07/15 19:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/07/15 19:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 19:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042815-SM-006
Date Collected: 04/28/15 09:08
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/07/15 19:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/07/15 19:52	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/07/15 19:52	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/07/15 19:52	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/07/15 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 129*		*05/07/15 19:52*	*1*
4-Bromofluorobenzene (Surr)	*92*		*66 - 120*		*05/07/15 19:52*	*1*
Toluene-d8 (Surr)	*96*		*74 - 120*		*05/07/15 19:52*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*		*05/07/15 19:52*	*1*

Client Sample ID: GW-042815-SM-007
Date Collected: 04/28/15 09:57
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2500	U	2500	240	ug/L			05/07/15 20:15	250
Benzene	250	U	250	88	ug/L			05/07/15 20:15	250
Dichlorobromomethane	250	U	250	73	ug/L			05/07/15 20:15	250
Bromoform	250	U	250	140	ug/L			05/07/15 20:15	250
Bromomethane	250	U	250	110	ug/L			05/07/15 20:15	250
2-Butanone (MEK)	2500	U	2500	130	ug/L			05/07/15 20:15	250
Carbon disulfide	250	U	250	95	ug/L			05/07/15 20:15	250
Carbon tetrachloride	250	U	250	110	ug/L			05/07/15 20:15	250
Chlorobenzene	250	U	250	63	ug/L			05/07/15 20:15	250
Chloroethane	250	U	250	80	ug/L			05/07/15 20:15	250
Chloroform	250	U	250	63	ug/L			05/07/15 20:15	250
Chloromethane	250	U	250	110	ug/L			05/07/15 20:15	250
1,1-Dichloroethane	**150**	**J**	250	75	ug/L			05/07/15 20:15	250
1,2-Dichloroethane	250	U	250	58	ug/L			05/07/15 20:15	250
1,1-Dichloroethene	250	U	250	110	ug/L			05/07/15 20:15	250
1,2-Dichloropropane	250	U	250	63	ug/L			05/07/15 20:15	250
cis-1,3-Dichloropropene	250	U	250	120	ug/L			05/07/15 20:15	250
trans-1,3-Dichloropropene	250	U	250	140	ug/L			05/07/15 20:15	250
Ethylbenzene	250	U	250	63	ug/L			05/07/15 20:15	250
2-Hexanone	2500	U	2500	120	ug/L			05/07/15 20:15	250
Methylene Chloride	250	U	250	83	ug/L			05/07/15 20:15	250
4-Methyl-2-pentanone (MIBK)	2500	U	2500	250	ug/L			05/07/15 20:15	250
Styrene	250	U	250	110	ug/L			05/07/15 20:15	250
1,1,2,2-Tetrachloroethane	250	U	250	55	ug/L			05/07/15 20:15	250
Tetrachloroethene	250	U	250	78	ug/L			05/07/15 20:15	250
Toluene	250	U	250	58	ug/L			05/07/15 20:15	250
Trichloroethene	**1500**		250	55	ug/L			05/07/15 20:15	250
Vinyl chloride	**180**	**J**	250	73	ug/L			05/07/15 20:15	250
Xylenes, Total	500	U	500	130	ug/L			05/07/15 20:15	250
1,1,1-Trichloroethane	250	U	250	110	ug/L			05/07/15 20:15	250
1,1,2-Trichloroethane	250	U	250	60	ug/L			05/07/15 20:15	250
Cyclohexane	250	U	250	110	ug/L			05/07/15 20:15	250
1,2-Dibromo-3-Chloropropane	500	U	500	210	ug/L			05/07/15 20:15	250
Ethylene Dibromide	250	U	250	80	ug/L			05/07/15 20:15	250

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042815-SM-007
Date Collected: 04/28/15 09:57
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	250	U	250	80	ug/L			05/07/15 20:15	250
cis-1,2-Dichloroethene	**5800**		250	65	ug/L			05/07/15 20:15	250
trans-1,2-Dichloroethene	**130**	**J**	250	75	ug/L			05/07/15 20:15	250
Isopropylbenzene	250	U	250	88	ug/L			05/07/15 20:15	250
Methyl acetate	2500	U	2500	570	ug/L			05/07/15 20:15	250
Methyl tert-butyl ether	250	U	250	50	ug/L			05/07/15 20:15	250
1,1,2-Trichloro-1,2,2-trifluoroethane	250	U	250	110	ug/L			05/07/15 20:15	250
1,2,4-Trichlorobenzene	250	U	250	80	ug/L			05/07/15 20:15	250
1,2-Dichlorobenzene	250	U	250	63	ug/L			05/07/15 20:15	250
1,3-Dichlorobenzene	250	U	250	48	ug/L			05/07/15 20:15	250
1,4-Dichlorobenzene	250	U	250	68	ug/L			05/07/15 20:15	250
Trichlorofluoromethane	250	U	250	120	ug/L			05/07/15 20:15	250
Chlorodibromomethane	250	U	250	110	ug/L			05/07/15 20:15	250
Methylcyclohexane	250	U	250	110	ug/L			05/07/15 20:15	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 129*		*05/07/15 20:15*	*250*
4-Bromofluorobenzene (Surr)	*94*		*66 - 120*		*05/07/15 20:15*	*250*
Toluene-d8 (Surr)	*98*		*74 - 120*		*05/07/15 20:15*	*250*
Dibromofluoromethane (Surr)	*98*		*75 - 121*		*05/07/15 20:15*	*250*

Client Sample ID: GW-042815-SM-008
Date Collected: 04/28/15 10:00
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2500	U	2500	240	ug/L			05/07/15 20:38	250
Benzene	250	U	250	88	ug/L			05/07/15 20:38	250
Dichlorobromomethane	250	U	250	73	ug/L			05/07/15 20:38	250
Bromoform	250	U	250	140	ug/L			05/07/15 20:38	250
Bromomethane	250	U	250	110	ug/L			05/07/15 20:38	250
2-Butanone (MEK)	2500	U	2500	130	ug/L			05/07/15 20:38	250
Carbon disulfide	250	U	250	95	ug/L			05/07/15 20:38	250
Carbon tetrachloride	250	U	250	110	ug/L			05/07/15 20:38	250
Chlorobenzene	250	U	250	63	ug/L			05/07/15 20:38	250
Chloroethane	250	U	250	80	ug/L			05/07/15 20:38	250
Chloroform	250	U	250	63	ug/L			05/07/15 20:38	250
Chloromethane	250	U	250	110	ug/L			05/07/15 20:38	250
1,1-Dichloroethane	**160**	**J**	250	75	ug/L			05/07/15 20:38	250
1,2-Dichloroethane	250	U	250	58	ug/L			05/07/15 20:38	250
1,1-Dichloroethene	250	U	250	110	ug/L			05/07/15 20:38	250
1,2-Dichloropropane	250	U	250	63	ug/L			05/07/15 20:38	250
cis-1,3-Dichloropropene	250	U	250	120	ug/L			05/07/15 20:38	250
trans-1,3-Dichloropropene	250	U	250	140	ug/L			05/07/15 20:38	250
Ethylbenzene	250	U	250	63	ug/L			05/07/15 20:38	250
2-Hexanone	2500	U	2500	120	ug/L			05/07/15 20:38	250
Methylene Chloride	**110**	**J**	250	83	ug/L			05/07/15 20:38	250
4-Methyl-2-pentanone (MIBK)	2500	U	2500	250	ug/L			05/07/15 20:38	250
Styrene	250	U	250	110	ug/L			05/07/15 20:38	250
1,1,2,2-Tetrachloroethane	250	U	250	55	ug/L			05/07/15 20:38	250
Tetrachloroethene	250	U	250	78	ug/L			05/07/15 20:38	250

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042815-SM-008
Date Collected: 04/28/15 10:00
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	250	U	250	58	ug/L			05/07/15 20:38	250
Trichloroethene	**1500**		250	55	ug/L			05/07/15 20:38	250
Vinyl chloride	**170**	**J**	250	73	ug/L			05/07/15 20:38	250
Xylenes, Total	500	U	500	130	ug/L			05/07/15 20:38	250
1,1,1-Trichloroethane	250	U	250	110	ug/L			05/07/15 20:38	250
1,1,2-Trichloroethane	250	U	250	60	ug/L			05/07/15 20:38	250
Cyclohexane	250	U	250	110	ug/L			05/07/15 20:38	250
1,2-Dibromo-3-Chloropropane	500	U	500	210	ug/L			05/07/15 20:38	250
Ethylene Dibromide	250	U	250	80	ug/L			05/07/15 20:38	250
Dichlorodifluoromethane	250	U	250	80	ug/L			05/07/15 20:38	250
cis-1,2-Dichloroethene	**5900**		250	65	ug/L			05/07/15 20:38	250
trans-1,2-Dichloroethene	**150**	**J**	250	75	ug/L			05/07/15 20:38	250
Isopropylbenzene	250	U	250	88	ug/L			05/07/15 20:38	250
Methyl acetate	2500	U	2500	570	ug/L			05/07/15 20:38	250
Methyl tert-butyl ether	250	U	250	50	ug/L			05/07/15 20:38	250
1,1,2-Trichloro-1,2,2-trifluoroethane	250	U	250	110	ug/L			05/07/15 20:38	250
1,2,4-Trichlorobenzene	250	U	250	80	ug/L			05/07/15 20:38	250
1,2-Dichlorobenzene	250	U	250	63	ug/L			05/07/15 20:38	250
1,3-Dichlorobenzene	250	U	250	48	ug/L			05/07/15 20:38	250
1,4-Dichlorobenzene	250	U	250	68	ug/L			05/07/15 20:38	250
Trichlorofluoromethane	250	U	250	120	ug/L			05/07/15 20:38	250
Chlorodibromomethane	250	U	250	110	ug/L			05/07/15 20:38	250
Methylcyclohexane	250	U	250	110	ug/L			05/07/15 20:38	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 129*		*05/07/15 20:38*	*250*
4-Bromofluorobenzene (Surr)	*90*		*66 - 120*		*05/07/15 20:38*	*250*
Toluene-d8 (Surr)	*97*		*74 - 120*		*05/07/15 20:38*	*250*
Dibromofluoromethane (Surr)	*101*		*75 - 121*		*05/07/15 20:38*	*250*

Client Sample ID: GW-042815-SM-009
Date Collected: 04/28/15 10:43
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5000	U	5000	470	ug/L			05/07/15 21:00	500
Benzene	500	U	500	180	ug/L			05/07/15 21:00	500
Dichlorobromomethane	500	U	500	150	ug/L			05/07/15 21:00	500
Bromoform	500	U	500	280	ug/L			05/07/15 21:00	500
Bromomethane	500	U	500	220	ug/L			05/07/15 21:00	500
2-Butanone (MEK)	5000	U	5000	270	ug/L			05/07/15 21:00	500
Carbon disulfide	500	U	500	190	ug/L			05/07/15 21:00	500
Carbon tetrachloride	500	U	500	220	ug/L			05/07/15 21:00	500
Chlorobenzene	500	U	500	130	ug/L			05/07/15 21:00	500
Chloroethane	500	U	500	160	ug/L			05/07/15 21:00	500
Chloroform	500	U	500	130	ug/L			05/07/15 21:00	500
Chloromethane	500	U	500	220	ug/L			05/07/15 21:00	500
1,1-Dichloroethane	**260**	**J**	500	150	ug/L			05/07/15 21:00	500
1,2-Dichloroethane	500	U	500	120	ug/L			05/07/15 21:00	500
1,1-Dichloroethene	500	U	500	230	ug/L			05/07/15 21:00	500
1,2-Dichloropropane	500	U	500	130	ug/L			05/07/15 21:00	500

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042815-SM-009
Date Collected: 04/28/15 10:43
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	500	U	500	230	ug/L			05/07/15 21:00	500
trans-1,3-Dichloropropene	500	U	500	280	ug/L			05/07/15 21:00	500
Ethylbenzene	**670**		500	130	ug/L			05/07/15 21:00	500
2-Hexanone	5000	U	5000	240	ug/L			05/07/15 21:00	500
Methylene Chloride	500	U	500	170	ug/L			05/07/15 21:00	500
4-Methyl-2-pentanone (MIBK)	5000	U	5000	500	ug/L			05/07/15 21:00	500
Styrene	500	U	500	230	ug/L			05/07/15 21:00	500
1,1,2,2-Tetrachloroethane	500	U	500	110	ug/L			05/07/15 21:00	500
Tetrachloroethene	500	U	500	160	ug/L			05/07/15 21:00	500
Toluene	**1900**		500	120	ug/L			05/07/15 21:00	500
Trichloroethene	500	U	500	110	ug/L			05/07/15 21:00	500
Vinyl chloride	**630**		500	150	ug/L			05/07/15 21:00	500
Xylenes, Total	**1700**		1000	260	ug/L			05/07/15 21:00	500
1,1,1-Trichloroethane	500	U	500	220	ug/L			05/07/15 21:00	500
1,1,2-Trichloroethane	500	U	500	120	ug/L			05/07/15 21:00	500
Cyclohexane	500	U	500	230	ug/L			05/07/15 21:00	500
1,2-Dibromo-3-Chloropropane	1000	U	1000	410	ug/L			05/07/15 21:00	500
Ethylene Dibromide	500	U	500	160	ug/L			05/07/15 21:00	500
Dichlorodifluoromethane	500	U	500	160	ug/L			05/07/15 21:00	500
cis-1,2-Dichloroethene	**11000**		500	130	ug/L			05/07/15 21:00	500
trans-1,2-Dichloroethene	500	U	500	150	ug/L			05/07/15 21:00	500
Isopropylbenzene	500	U	500	180	ug/L			05/07/15 21:00	500
Methyl acetate	5000	U	5000	1100	ug/L			05/07/15 21:00	500
Methyl tert-butyl ether	500	U	500	100	ug/L			05/07/15 21:00	500
1,1,2-Trichloro-1,2,2-trifluoroethane	500	U	500	230	ug/L			05/07/15 21:00	500
1,2,4-Trichlorobenzene	500	U	500	160	ug/L			05/07/15 21:00	500
1,2-Dichlorobenzene	500	U	500	130	ug/L			05/07/15 21:00	500
1,3-Dichlorobenzene	500	U	500	95	ug/L			05/07/15 21:00	500
1,4-Dichlorobenzene	500	U	500	140	ug/L			05/07/15 21:00	500
Trichlorofluoromethane	500	U	500	250	ug/L			05/07/15 21:00	500
Chlorodibromomethane	500	U	500	220	ug/L			05/07/15 21:00	500
Methylcyclohexane	500	U	500	220	ug/L			05/07/15 21:00	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 129*		*05/07/15 21:00*	*500*
4-Bromofluorobenzene (Surr)	*95*		*66 - 120*		*05/07/15 21:00*	*500*
Toluene-d8 (Surr)	*95*		*74 - 120*		*05/07/15 21:00*	*500*
Dibromofluoromethane (Surr)	*105*		*75 - 121*		*05/07/15 21:00*	*500*

Client Sample ID: GW-042815-SM-010
Date Collected: 04/28/15 11:12
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3300	U	3300	310	ug/L			05/07/15 21:23	333.33
Benzene	330	U	330	120	ug/L			05/07/15 21:23	333.33
Dichlorobromomethane	330	U	330	97	ug/L			05/07/15 21:23	333.33
Bromoform	330	U	330	190	ug/L			05/07/15 21:23	333.33
Bromomethane	330	U	330	150	ug/L			05/07/15 21:23	333.33
2-Butanone (MEK)	3300	U	3300	180	ug/L			05/07/15 21:23	333.33
Carbon disulfide	330	U	330	130	ug/L			05/07/15 21:23	333.33

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042815-SM-010
Date Collected: 04/28/15 11:12
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	330	U	330	140	ug/L			05/07/15 21:23	333.33
Chlorobenzene	330	U	330	83	ug/L			05/07/15 21:23	333.33
Chloroethane	330	U	330	110	ug/L			05/07/15 21:23	333.33
Chloroform	330	U	330	83	ug/L			05/07/15 21:23	333.33
Chloromethane	330	U	330	150	ug/L			05/07/15 21:23	333.33
1,1-Dichloroethane	**200**	**J**	330	100	ug/L			05/07/15 21:23	333.33
1,2-Dichloroethane	330	U	330	77	ug/L			05/07/15 21:23	333.33
1,1-Dichloroethene	330	U	330	150	ug/L			05/07/15 21:23	333.33
1,2-Dichloropropane	330	U	330	83	ug/L			05/07/15 21:23	333.33
cis-1,3-Dichloropropene	330	U	330	150	ug/L			05/07/15 21:23	333.33
trans-1,3-Dichloropropene	330	U	330	190	ug/L			05/07/15 21:23	333.33
Ethylbenzene	330	U	330	83	ug/L			05/07/15 21:23	333.33
2-Hexanone	3300	U	3300	160	ug/L			05/07/15 21:23	333.33
Methylene Chloride	**140**	**J**	330	110	ug/L			05/07/15 21:23	333.33
4-Methyl-2-pentanone (MIBK)	3300	U	3300	330	ug/L			05/07/15 21:23	333.33
Styrene	330	U	330	150	ug/L			05/07/15 21:23	333.33
1,1,2,2-Tetrachloroethane	330	U	330	73	ug/L			05/07/15 21:23	333.33
Tetrachloroethene	330	U	330	100	ug/L			05/07/15 21:23	333.33
Toluene	330	U	330	77	ug/L			05/07/15 21:23	333.33
Trichloroethene	**8300**		330	73	ug/L			05/07/15 21:23	333.33
Vinyl chloride	330	U	330	97	ug/L			05/07/15 21:23	333.33
Xylenes, Total	670	U	670	170	ug/L			05/07/15 21:23	333.33
1,1,1-Trichloroethane	**420**		330	150	ug/L			05/07/15 21:23	333.33
1,1,2-Trichloroethane	330	U	330	80	ug/L			05/07/15 21:23	333.33
Cyclohexane	330	U	330	150	ug/L			05/07/15 21:23	333.33
1,2-Dibromo-3-Chloropropane	670	U	670	270	ug/L			05/07/15 21:23	333.33
Ethylene Dibromide	330	U	330	110	ug/L			05/07/15 21:23	333.33
Dichlorodifluoromethane	330	U	330	110	ug/L			05/07/15 21:23	333.33
cis-1,2-Dichloroethene	**4500**		330	87	ug/L			05/07/15 21:23	333.33
trans-1,2-Dichloroethene	330	U	330	100	ug/L			05/07/15 21:23	333.33
Isopropylbenzene	330	U	330	120	ug/L			05/07/15 21:23	333.33
Methyl acetate	3300	U	3300	760	ug/L			05/07/15 21:23	333.33
Methyl tert-butyl ether	330	U	330	67	ug/L			05/07/15 21:23	333.33
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	330	150	ug/L			05/07/15 21:23	333.33
1,2,4-Trichlorobenzene	330	U	330	110	ug/L			05/07/15 21:23	333.33
1,2-Dichlorobenzene	330	U	330	83	ug/L			05/07/15 21:23	333.33
1,3-Dichlorobenzene	330	U	330	63	ug/L			05/07/15 21:23	333.33
1,4-Dichlorobenzene	330	U	330	90	ug/L			05/07/15 21:23	333.33
Trichlorofluoromethane	330	U	330	160	ug/L			05/07/15 21:23	333.33
Chlorodibromomethane	330	U	330	140	ug/L			05/07/15 21:23	333.33
Methylcyclohexane	330	U	330	140	ug/L			05/07/15 21:23	333.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 129*		*05/07/15 21:23*	*333.33*
4-Bromofluorobenzene (Surr)	*93*		*66 - 120*		*05/07/15 21:23*	*333.33*
Toluene-d8 (Surr)	*97*		*74 - 120*		*05/07/15 21:23*	*333.33*
Dibromofluoromethane (Surr)	*100*		*75 - 121*		*05/07/15 21:23*	*333.33*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: GW-042815-SM-011
Date Collected: 04/28/15 11:47
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1700	U	1700	160	ug/L			05/07/15 21:45	166.67
Benzene	170	U	170	58	ug/L			05/07/15 21:45	166.67
Dichlorobromomethane	170	U	170	48	ug/L			05/07/15 21:45	166.67
Bromoform	170	U	170	93	ug/L			05/07/15 21:45	166.67
Bromomethane	170	U	170	73	ug/L			05/07/15 21:45	166.67
2-Butanone (MEK)	1700	U	1700	88	ug/L			05/07/15 21:45	166.67
Carbon disulfide	170	U	170	63	ug/L			05/07/15 21:45	166.67
Carbon tetrachloride	170	U	170	72	ug/L			05/07/15 21:45	166.67
Chlorobenzene	170	U	170	42	ug/L			05/07/15 21:45	166.67
Chloroethane	170	U	170	53	ug/L			05/07/15 21:45	166.67
Chloroform	170	U	170	42	ug/L			05/07/15 21:45	166.67
Chloromethane	170	U	170	73	ug/L			05/07/15 21:45	166.67
1,1-Dichloroethane	170	U	170	50	ug/L			05/07/15 21:45	166.67
1,2-Dichloroethane	170	U	170	38	ug/L			05/07/15 21:45	166.67
1,1-Dichloroethene	170	U	170	75	ug/L			05/07/15 21:45	166.67
1,2-Dichloropropane	170	U	170	42	ug/L			05/07/15 21:45	166.67
cis-1,3-Dichloropropene	170	U	170	77	ug/L			05/07/15 21:45	166.67
trans-1,3-Dichloropropene	170	U	170	93	ug/L			05/07/15 21:45	166.67
Ethylbenzene	170	U	170	42	ug/L			05/07/15 21:45	166.67
2-Hexanone	1700	U	1700	80	ug/L			05/07/15 21:45	166.67
Methylene Chloride	**70**	**J**	170	55	ug/L			05/07/15 21:45	166.67
4-Methyl-2-pentanone (MIBK)	1700	U	1700	170	ug/L			05/07/15 21:45	166.67
Styrene	170	U	170	75	ug/L			05/07/15 21:45	166.67
1,1,2,2-Tetrachloroethane	170	U	170	37	ug/L			05/07/15 21:45	166.67
Tetrachloroethene	170	U	170	52	ug/L			05/07/15 21:45	166.67
Toluene	170	U	170	38	ug/L			05/07/15 21:45	166.67
Trichloroethene	**330**		170	37	ug/L			05/07/15 21:45	166.67
Vinyl chloride	**1900**		170	48	ug/L			05/07/15 21:45	166.67
Xylenes, Total	330	U	330	87	ug/L			05/07/15 21:45	166.67
1,1,1-Trichloroethane	170	U	170	73	ug/L			05/07/15 21:45	166.67
1,1,2-Trichloroethane	170	U	170	40	ug/L			05/07/15 21:45	166.67
Cyclohexane	170	U	170	75	ug/L			05/07/15 21:45	166.67
1,2-Dibromo-3-Chloropropane	330	U	330	140	ug/L			05/07/15 21:45	166.67
Ethylene Dibromide	170	U	170	53	ug/L			05/07/15 21:45	166.67
Dichlorodifluoromethane	170	U	170	53	ug/L			05/07/15 21:45	166.67
cis-1,2-Dichloroethene	**3800**		170	43	ug/L			05/07/15 21:45	166.67
trans-1,2-Dichloroethene	170	U	170	50	ug/L			05/07/15 21:45	166.67
Isopropylbenzene	170	U	170	58	ug/L			05/07/15 21:45	166.67
Methyl acetate	1700	U	1700	380	ug/L			05/07/15 21:45	166.67
Methyl tert-butyl ether	170	U	170	33	ug/L			05/07/15 21:45	166.67
1,1,2-Trichloro-1,2,2-trifluoroethane	170	U	170	75	ug/L			05/07/15 21:45	166.67
1,2,4-Trichlorobenzene	170	U	170	53	ug/L			05/07/15 21:45	166.67
1,2-Dichlorobenzene	170	U	170	42	ug/L			05/07/15 21:45	166.67
1,3-Dichlorobenzene	170	U	170	32	ug/L			05/07/15 21:45	166.67
1,4-Dichlorobenzene	170	U	170	45	ug/L			05/07/15 21:45	166.67
Trichlorofluoromethane	170	U	170	82	ug/L			05/07/15 21:45	166.67
Chlorodibromomethane	170	U	170	72	ug/L			05/07/15 21:45	166.67
Methylcyclohexane	170	U	170	72	ug/L			05/07/15 21:45	166.67

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 129		05/07/15 21:45	166.67
4-Bromofluorobenzene (Surr)	91		66 - 120		05/07/15 21:45	166.67
Toluene-d8 (Surr)	96		74 - 120		05/07/15 21:45	166.67
Dibromofluoromethane (Surr)	100		75 - 121		05/07/15 21:45	166.67

Client Sample ID: GW-042815-SM-012
Date Collected: 04/28/15 12:52
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	57	U	57	5.4	ug/L			05/07/15 22:08	5.71
Benzene	5.7	U	5.7	2.0	ug/L			05/07/15 22:08	5.71
Dichlorobromomethane	5.7	U	5.7	1.7	ug/L			05/07/15 22:08	5.71
Bromoform	5.7	U	5.7	3.2	ug/L			05/07/15 22:08	5.71
Bromomethane	5.7	U	5.7	2.5	ug/L			05/07/15 22:08	5.71
2-Butanone (MEK)	57	U	57	3.0	ug/L			05/07/15 22:08	5.71
Carbon disulfide	5.7	U	5.7	2.2	ug/L			05/07/15 22:08	5.71
Carbon tetrachloride	5.7	U	5.7	2.5	ug/L			05/07/15 22:08	5.71
Chlorobenzene	5.7	U	5.7	1.4	ug/L			05/07/15 22:08	5.71
Chloroethane	5.7	U	5.7	1.8	ug/L			05/07/15 22:08	5.71
Chloroform	5.7	U	5.7	1.4	ug/L			05/07/15 22:08	5.71
Chloromethane	5.7	U	5.7	2.5	ug/L			05/07/15 22:08	5.71
1,1-Dichloroethane	5.7	U	5.7	1.7	ug/L			05/07/15 22:08	5.71
1,2-Dichloroethane	5.7	U	5.7	1.3	ug/L			05/07/15 22:08	5.71
1,1-Dichloroethene	5.7	U	5.7	2.6	ug/L			05/07/15 22:08	5.71
1,2-Dichloropropane	5.7	U	5.7	1.4	ug/L			05/07/15 22:08	5.71
cis-1,3-Dichloropropene	5.7	U	5.7	2.6	ug/L			05/07/15 22:08	5.71
trans-1,3-Dichloropropene	5.7	U	5.7	3.2	ug/L			05/07/15 22:08	5.71
Ethylbenzene	5.7	U	5.7	1.4	ug/L			05/07/15 22:08	5.71
2-Hexanone	57	U	57	2.7	ug/L			05/07/15 22:08	5.71
Methylene Chloride	5.7	U	5.7	1.9	ug/L			05/07/15 22:08	5.71
4-Methyl-2-pentanone (MIBK)	57	U	57	5.7	ug/L			05/07/15 22:08	5.71
Styrene	5.7	U	5.7	2.6	ug/L			05/07/15 22:08	5.71
1,1,2,2-Tetrachloroethane	5.7	U	5.7	1.3	ug/L			05/07/15 22:08	5.71
Tetrachloroethene	5.7	U	5.7	1.8	ug/L			05/07/15 22:08	5.71
Toluene	5.7	U	5.7	1.3	ug/L			05/07/15 22:08	5.71
Trichloroethene	**140**		5.7	1.3	ug/L			05/07/15 22:08	5.71
Vinyl chloride	**2.4**	**J**	5.7	1.7	ug/L			05/07/15 22:08	5.71
Xylenes, Total	11	U	11	3.0	ug/L			05/07/15 22:08	5.71
1,1,1-Trichloroethane	5.7	U	5.7	2.5	ug/L			05/07/15 22:08	5.71
1,1,2-Trichloroethane	5.7	U	5.7	1.4	ug/L			05/07/15 22:08	5.71
Cyclohexane	5.7	U	5.7	2.6	ug/L			05/07/15 22:08	5.71
1,2-Dibromo-3-Chloropropane	11	U	11	4.7	ug/L			05/07/15 22:08	5.71
Ethylene Dibromide	5.7	U	5.7	1.8	ug/L			05/07/15 22:08	5.71
Dichlorodifluoromethane	5.7	U	5.7	1.8	ug/L			05/07/15 22:08	5.71
cis-1,2-Dichloroethene	**7.8**		5.7	1.5	ug/L			05/07/15 22:08	5.71
trans-1,2-Dichloroethene	5.7	U	5.7	1.7	ug/L			05/07/15 22:08	5.71
Isopropylbenzene	5.7	U	5.7	2.0	ug/L			05/07/15 22:08	5.71
Methyl acetate	57	U	57	13	ug/L			05/07/15 22:08	5.71
Methyl tert-butyl ether	5.7	U	5.7	1.1	ug/L			05/07/15 22:08	5.71
1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U	5.7	2.6	ug/L			05/07/15 22:08	5.71
1,2,4-Trichlorobenzene	5.7	U	5.7	1.8	ug/L			05/07/15 22:08	5.71
1,2-Dichlorobenzene	5.7	U	5.7	1.4	ug/L			05/07/15 22:08	5.71

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042815-SM-012
Date Collected: 04/28/15 12:52
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	5.7	U	5.7	1.1	ug/L			05/07/15 22:08	5.71
1,4-Dichlorobenzene	5.7	U	5.7	1.5	ug/L			05/07/15 22:08	5.71
Trichlorofluoromethane	5.7	U	5.7	2.8	ug/L			05/07/15 22:08	5.71
Chlorodibromomethane	5.7	U	5.7	2.5	ug/L			05/07/15 22:08	5.71
Methylcyclohexane	5.7	U	5.7	2.5	ug/L			05/07/15 22:08	5.71

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 129*		*05/07/15 22:08*	*5.71*
4-Bromofluorobenzene (Surr)	*91*		*66 - 120*		*05/07/15 22:08*	*5.71*
Toluene-d8 (Surr)	*94*		*74 - 120*		*05/07/15 22:08*	*5.71*
Dibromofluoromethane (Surr)	*100*		*75 - 121*		*05/07/15 22:08*	*5.71*

Client Sample ID: GW-042815-SM-013
Date Collected: 04/28/15 12:57
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.4**	**J**	57	5.4	ug/L			05/07/15 22:30	5.71
Benzene	5.7	U	5.7	2.0	ug/L			05/07/15 22:30	5.71
Dichlorobromomethane	5.7	U	5.7	1.7	ug/L			05/07/15 22:30	5.71
Bromoform	5.7	U	5.7	3.2	ug/L			05/07/15 22:30	5.71
Bromomethane	5.7	U	5.7	2.5	ug/L			05/07/15 22:30	5.71
2-Butanone (MEK)	57	U	57	3.0	ug/L			05/07/15 22:30	5.71
Carbon disulfide	5.7	U	5.7	2.2	ug/L			05/07/15 22:30	5.71
Carbon tetrachloride	5.7	U	5.7	2.5	ug/L			05/07/15 22:30	5.71
Chlorobenzene	5.7	U	5.7	1.4	ug/L			05/07/15 22:30	5.71
Chloroethane	5.7	U	5.7	1.8	ug/L			05/07/15 22:30	5.71
Chloroform	5.7	U	5.7	1.4	ug/L			05/07/15 22:30	5.71
Chloromethane	5.7	U	5.7	2.5	ug/L			05/07/15 22:30	5.71
1,1-Dichloroethane	5.7	U	5.7	1.7	ug/L			05/07/15 22:30	5.71
1,2-Dichloroethane	5.7	U	5.7	1.3	ug/L			05/07/15 22:30	5.71
1,1-Dichloroethene	5.7	U	5.7	2.6	ug/L			05/07/15 22:30	5.71
1,2-Dichloropropane	5.7	U	5.7	1.4	ug/L			05/07/15 22:30	5.71
cis-1,3-Dichloropropene	5.7	U	5.7	2.6	ug/L			05/07/15 22:30	5.71
trans-1,3-Dichloropropene	5.7	U	5.7	3.2	ug/L			05/07/15 22:30	5.71
Ethylbenzene	5.7	U	5.7	1.4	ug/L			05/07/15 22:30	5.71
2-Hexanone	57	U	57	2.7	ug/L			05/07/15 22:30	5.71
Methylene Chloride	5.7	U	5.7	1.9	ug/L			05/07/15 22:30	5.71
4-Methyl-2-pentanone (MIBK)	57	U	57	5.7	ug/L			05/07/15 22:30	5.71
Styrene	5.7	U	5.7	2.6	ug/L			05/07/15 22:30	5.71
1,1,2,2-Tetrachloroethane	5.7	U	5.7	1.3	ug/L			05/07/15 22:30	5.71
Tetrachloroethene	5.7	U	5.7	1.8	ug/L			05/07/15 22:30	5.71
Toluene	5.7	U	5.7	1.3	ug/L			05/07/15 22:30	5.71
Trichloroethene	**160**		5.7	1.3	ug/L			05/07/15 22:30	5.71
Vinyl chloride	**2.6**	**J**	5.7	1.7	ug/L			05/07/15 22:30	5.71
Xylenes, Total	11	U	11	3.0	ug/L			05/07/15 22:30	5.71
1,1,1-Trichloroethane	5.7	U	5.7	2.5	ug/L			05/07/15 22:30	5.71
1,1,2-Trichloroethane	5.7	U	5.7	1.4	ug/L			05/07/15 22:30	5.71
Cyclohexane	5.7	U	5.7	2.6	ug/L			05/07/15 22:30	5.71
1,2-Dibromo-3-Chloropropane	11	U	11	4.7	ug/L			05/07/15 22:30	5.71
Ethylene Dibromide	5.7	U	5.7	1.8	ug/L			05/07/15 22:30	5.71

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042815-SM-013
Date Collected: 04/28/15 12:57
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.7	U	5.7	1.8	ug/L			05/07/15 22:30	5.71
cis-1,2-Dichloroethene	**7.7**		5.7	1.5	ug/L			05/07/15 22:30	5.71
trans-1,2-Dichloroethene	5.7	U	5.7	1.7	ug/L			05/07/15 22:30	5.71
Isopropylbenzene	5.7	U	5.7	2.0	ug/L			05/07/15 22:30	5.71
Methyl acetate	57	U	57	13	ug/L			05/07/15 22:30	5.71
Methyl tert-butyl ether	5.7	U	5.7	1.1	ug/L			05/07/15 22:30	5.71
1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U	5.7	2.6	ug/L			05/07/15 22:30	5.71
1,2,4-Trichlorobenzene	5.7	U	5.7	1.8	ug/L			05/07/15 22:30	5.71
1,2-Dichlorobenzene	5.7	U	5.7	1.4	ug/L			05/07/15 22:30	5.71
1,3-Dichlorobenzene	5.7	U	5.7	1.1	ug/L			05/07/15 22:30	5.71
1,4-Dichlorobenzene	5.7	U	5.7	1.5	ug/L			05/07/15 22:30	5.71
Trichlorofluoromethane	5.7	U	5.7	2.8	ug/L			05/07/15 22:30	5.71
Chlorodibromomethane	5.7	U	5.7	2.5	ug/L			05/07/15 22:30	5.71
Methylcyclohexane	5.7	U	5.7	2.5	ug/L			05/07/15 22:30	5.71

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 129*		*05/07/15 22:30*	*5.71*
4-Bromofluorobenzene (Surr)	*91*		*66 - 120*		*05/07/15 22:30*	*5.71*
Toluene-d8 (Surr)	*93*		*74 - 120*		*05/07/15 22:30*	*5.71*
Dibromofluoromethane (Surr)	*99*		*75 - 121*		*05/07/15 22:30*	*5.71*

Client Sample ID: GW-042815-SM-014
Date Collected: 04/28/15 13:37
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3300	U	3300	310	ug/L			05/07/15 13:47	333.33
Benzene	330	U	330	120	ug/L			05/07/15 13:47	333.33
Dichlorobromomethane	330	U	330	97	ug/L			05/07/15 13:47	333.33
Bromoform	330	U	330	190	ug/L			05/07/15 13:47	333.33
Bromomethane	330	U	330	150	ug/L			05/07/15 13:47	333.33
2-Butanone (MEK)	3300	U	3300	180	ug/L			05/07/15 13:47	333.33
Carbon disulfide	330	U	330	130	ug/L			05/07/15 13:47	333.33
Carbon tetrachloride	330	U	330	140	ug/L			05/07/15 13:47	333.33
Chlorobenzene	330	U	330	83	ug/L			05/07/15 13:47	333.33
Chloroethane	330	U	330	110	ug/L			05/07/15 13:47	333.33
Chloroform	330	U	330	83	ug/L			05/07/15 13:47	333.33
Chloromethane	330	U	330	150	ug/L			05/07/15 13:47	333.33
1,1-Dichloroethane	**280**	**J**	330	100	ug/L			05/07/15 13:47	333.33
1,2-Dichloroethane	330	U	330	77	ug/L			05/07/15 13:47	333.33
1,1-Dichloroethene	330	U	330	150	ug/L			05/07/15 13:47	333.33
1,2-Dichloropropane	330	U	330	83	ug/L			05/07/15 13:47	333.33
cis-1,3-Dichloropropene	330	U	330	150	ug/L			05/07/15 13:47	333.33
trans-1,3-Dichloropropene	330	U	330	190	ug/L			05/07/15 13:47	333.33
Ethylbenzene	330	U	330	83	ug/L			05/07/15 13:47	333.33
2-Hexanone	3300	U	3300	160	ug/L			05/07/15 13:47	333.33
Methylene Chloride	330	U	330	110	ug/L			05/07/15 13:47	333.33
4-Methyl-2-pentanone (MIBK)	3300	U	3300	330	ug/L			05/07/15 13:47	333.33
Styrene	330	U	330	150	ug/L			05/07/15 13:47	333.33
1,1,2,2-Tetrachloroethane	330	U	330	73	ug/L			05/07/15 13:47	333.33
Tetrachloroethene	330	U	330	100	ug/L			05/07/15 13:47	333.33

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042815-SM-014
Date Collected: 04/28/15 13:37
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	330	U	330	77	ug/L			05/07/15 13:47	333.33
Trichloroethene	**320**	**J**	330	73	ug/L			05/07/15 13:47	333.33
Vinyl chloride	**430**		330	97	ug/L			05/07/15 13:47	333.33
Xylenes, Total	670	U	670	170	ug/L			05/07/15 13:47	333.33
1,1,1-Trichloroethane	330	U	330	150	ug/L			05/07/15 13:47	333.33
1,1,2-Trichloroethane	330	U	330	80	ug/L			05/07/15 13:47	333.33
Cyclohexane	330	U	330	150	ug/L			05/07/15 13:47	333.33
1,2-Dibromo-3-Chloropropane	670	U	670	270	ug/L			05/07/15 13:47	333.33
Ethylene Dibromide	330	U	330	110	ug/L			05/07/15 13:47	333.33
Dichlorodifluoromethane	330	U	330	110	ug/L			05/07/15 13:47	333.33
cis-1,2-Dichloroethene	**7500**	**F1**	330	87	ug/L			05/07/15 13:47	333.33
trans-1,2-Dichloroethene	**150**	**J**	330	100	ug/L			05/07/15 13:47	333.33
Isopropylbenzene	330	U	330	120	ug/L			05/07/15 13:47	333.33
Methyl acetate	3300	U	3300	760	ug/L			05/07/15 13:47	333.33
Methyl tert-butyl ether	330	U	330	67	ug/L			05/07/15 13:47	333.33
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	330	150	ug/L			05/07/15 13:47	333.33
1,2,4-Trichlorobenzene	330	U	330	110	ug/L			05/07/15 13:47	333.33
1,2-Dichlorobenzene	330	U	330	83	ug/L			05/07/15 13:47	333.33
1,3-Dichlorobenzene	330	U	330	63	ug/L			05/07/15 13:47	333.33
1,4-Dichlorobenzene	330	U	330	90	ug/L			05/07/15 13:47	333.33
Trichlorofluoromethane	330	U	330	160	ug/L			05/07/15 13:47	333.33
Chlorodibromomethane	330	U	330	140	ug/L			05/07/15 13:47	333.33
Methylcyclohexane	330	U	330	140	ug/L			05/07/15 13:47	333.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 129*		*05/07/15 13:47*	*333.33*
4-Bromofluorobenzene (Surr)	*93*		*66 - 120*		*05/07/15 13:47*	*333.33*
Toluene-d8 (Surr)	*99*		*74 - 120*		*05/07/15 13:47*	*333.33*
Dibromofluoromethane (Surr)	*101*		*75 - 121*		*05/07/15 13:47*	*333.33*

Client Sample ID: RB-042815-SM-001
Date Collected: 04/28/15 08:30
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			05/07/15 01:04	1
Benzene	1.0	U	1.0	0.35	ug/L			05/07/15 01:04	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/07/15 01:04	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/07/15 01:04	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/07/15 01:04	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/07/15 01:04	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/07/15 01:04	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/07/15 01:04	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 01:04	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/07/15 01:04	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/07/15 01:04	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/07/15 01:04	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/07/15 01:04	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/07/15 01:04	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/07/15 01:04	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/07/15 01:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-042815-SM-001
Date Collected: 04/28/15 08:30
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/07/15 01:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/07/15 01:04	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/07/15 01:04	1
2-Hexanone	10	U	10	0.48	ug/L			05/07/15 01:04	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/07/15 01:04	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/07/15 01:04	1
Styrene	1.0	U	1.0	0.45	ug/L			05/07/15 01:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/07/15 01:04	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/07/15 01:04	1
Toluene	1.0	U	1.0	0.23	ug/L			05/07/15 01:04	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/07/15 01:04	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/07/15 01:04	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/07/15 01:04	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/07/15 01:04	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/07/15 01:04	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/07/15 01:04	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/07/15 01:04	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/07/15 01:04	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/07/15 01:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/07/15 01:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/07/15 01:04	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/07/15 01:04	1
Methyl acetate	10	U	10	2.3	ug/L			05/07/15 01:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/07/15 01:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/07/15 01:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/07/15 01:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 01:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/07/15 01:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/07/15 01:04	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/07/15 01:04	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/07/15 01:04	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/07/15 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 129*		*05/07/15 01:04*	*1*
4-Bromofluorobenzene (Surr)	*97*		*66 - 120*		*05/07/15 01:04*	*1*
Toluene-d8 (Surr)	*97*		*74 - 120*		*05/07/15 01:04*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*		*05/07/15 01:04*	*1*

Client Sample ID: RB-042815-SM-002
Date Collected: 04/28/15 13:45
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**1.9**	**J**	10	0.94	ug/L			05/07/15 01:26	1
Benzene	1.0	U	1.0	0.35	ug/L			05/07/15 01:26	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/07/15 01:26	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/07/15 01:26	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/07/15 01:26	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/07/15 01:26	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/07/15 01:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-042815-SM-002
Date Collected: 04/28/15 13:45
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/07/15 01:26	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 01:26	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/07/15 01:26	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/07/15 01:26	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/07/15 01:26	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/07/15 01:26	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/07/15 01:26	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/07/15 01:26	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/07/15 01:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/07/15 01:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/07/15 01:26	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/07/15 01:26	1
2-Hexanone	10	U	10	0.48	ug/L			05/07/15 01:26	1
Methylene Chloride	**0.34**	**J**	1.0	0.33	ug/L			05/07/15 01:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/07/15 01:26	1
Styrene	1.0	U	1.0	0.45	ug/L			05/07/15 01:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/07/15 01:26	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/07/15 01:26	1
Toluene	1.0	U	1.0	0.23	ug/L			05/07/15 01:26	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/07/15 01:26	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/07/15 01:26	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/07/15 01:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/07/15 01:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/07/15 01:26	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/07/15 01:26	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/07/15 01:26	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/07/15 01:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/07/15 01:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/07/15 01:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/07/15 01:26	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/07/15 01:26	1
Methyl acetate	10	U	10	2.3	ug/L			05/07/15 01:26	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/07/15 01:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/07/15 01:26	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/07/15 01:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 01:26	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/07/15 01:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/07/15 01:26	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/07/15 01:26	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/07/15 01:26	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/07/15 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 129*		*05/07/15 01:26*	*1*
4-Bromofluorobenzene (Surr)	*98*		*66 - 120*		*05/07/15 01:26*	*1*
Toluene-d8 (Surr)	*97*		*74 - 120*		*05/07/15 01:26*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*		*05/07/15 01:26*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: GW-042915-SM-015
Date Collected: 04/29/15 08:33
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250	U	250	24	ug/L			05/07/15 12:41	25
Benzene	25	U	25	8.8	ug/L			05/07/15 12:41	25
Dichlorobromomethane	25	U	25	7.3	ug/L			05/07/15 12:41	25
Bromoform	25	U	25	14	ug/L			05/07/15 12:41	25
Bromomethane	25	U	25	11	ug/L			05/07/15 12:41	25
2-Butanone (MEK)	250	U	250	13	ug/L			05/07/15 12:41	25
Carbon disulfide	25	U	25	9.5	ug/L			05/07/15 12:41	25
Carbon tetrachloride	25	U	25	11	ug/L			05/07/15 12:41	25
Chlorobenzene	25	U	25	6.3	ug/L			05/07/15 12:41	25
Chloroethane	25	U	25	8.0	ug/L			05/07/15 12:41	25
Chloroform	25	U	25	6.3	ug/L			05/07/15 12:41	25
Chloromethane	25	U	25	11	ug/L			05/07/15 12:41	25
1,1-Dichloroethane	25	U	25	7.5	ug/L			05/07/15 12:41	25
1,2-Dichloroethane	25	U	25	5.8	ug/L			05/07/15 12:41	25
1,1-Dichloroethene	25	U	25	11	ug/L			05/07/15 12:41	25
1,2-Dichloropropane	25	U	25	6.3	ug/L			05/07/15 12:41	25
cis-1,3-Dichloropropene	25	U	25	12	ug/L			05/07/15 12:41	25
trans-1,3-Dichloropropene	25	U	25	14	ug/L			05/07/15 12:41	25
Ethylbenzene	25	U	25	6.3	ug/L			05/07/15 12:41	25
2-Hexanone	250	U	250	12	ug/L			05/07/15 12:41	25
Methylene Chloride	25	U	25	8.3	ug/L			05/07/15 12:41	25
4-Methyl-2-pentanone (MIBK)	250	U	250	25	ug/L			05/07/15 12:41	25
Styrene	25	U	25	11	ug/L			05/07/15 12:41	25
1,1,2,2-Tetrachloroethane	25	U	25	5.5	ug/L			05/07/15 12:41	25
Tetrachloroethene	25	U	25	7.8	ug/L			05/07/15 12:41	25
Toluene	25	U	25	5.8	ug/L			05/07/15 12:41	25
Trichloroethene	25	U	25	5.5	ug/L			05/07/15 12:41	25
Vinyl chloride	**130**		25	7.3	ug/L			05/07/15 12:41	25
Xylenes, Total	50	U	50	13	ug/L			05/07/15 12:41	25
1,1,1-Trichloroethane	25	U	25	11	ug/L			05/07/15 12:41	25
1,1,2-Trichloroethane	25	U	25	6.0	ug/L			05/07/15 12:41	25
Cyclohexane	25	U	25	11	ug/L			05/07/15 12:41	25
1,2-Dibromo-3-Chloropropane	50	U	50	21	ug/L			05/07/15 12:41	25
Ethylene Dibromide	25	U	25	8.0	ug/L			05/07/15 12:41	25
Dichlorodifluoromethane	25	U	25	8.0	ug/L			05/07/15 12:41	25
cis-1,2-Dichloroethene	**600**		25	6.5	ug/L			05/07/15 12:41	25
trans-1,2-Dichloroethene	25	U	25	7.5	ug/L			05/07/15 12:41	25
Isopropylbenzene	25	U	25	8.8	ug/L			05/07/15 12:41	25
Methyl acetate	250	U	250	57	ug/L			05/07/15 12:41	25
Methyl tert-butyl ether	25	U	25	5.0	ug/L			05/07/15 12:41	25
1,1,2-Trichloro-1,2,2-trifluoroethane	25	U	25	11	ug/L			05/07/15 12:41	25
1,2,4-Trichlorobenzene	25	U	25	8.0	ug/L			05/07/15 12:41	25
1,2-Dichlorobenzene	25	U	25	6.3	ug/L			05/07/15 12:41	25
1,3-Dichlorobenzene	25	U	25	4.8	ug/L			05/07/15 12:41	25
1,4-Dichlorobenzene	25	U	25	6.8	ug/L			05/07/15 12:41	25
Trichlorofluoromethane	25	U	25	12	ug/L			05/07/15 12:41	25
Chlorodibromomethane	25	U	25	11	ug/L			05/07/15 12:41	25
Methylcyclohexane	25	U	25	11	ug/L			05/07/15 12:41	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 129*		*05/07/15 12:41*	*25*
4-Bromofluorobenzene (Surr)	*75*		*66 - 120*		*05/07/15 12:41*	*25*
Toluene-d8 (Surr)	*93*		*74 - 120*		*05/07/15 12:41*	*25*
Dibromofluoromethane (Surr)	*91*		*75 - 121*		*05/07/15 12:41*	*25*

Client Sample ID: GW-042915-SM-016 **Lab Sample ID: 240-50057-20**
Date Collected: 04/29/15 09:17 **Matrix: Water**
Date Received: 04/30/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2000	U	2000	190	ug/L			05/07/15 13:04	200
Benzene	200	U	200	70	ug/L			05/07/15 13:04	200
Dichlorobromomethane	200	U	200	58	ug/L			05/07/15 13:04	200
Bromoform	200	U	200	110	ug/L			05/07/15 13:04	200
Bromomethane	200	U	200	88	ug/L			05/07/15 13:04	200
2-Butanone (MEK)	2000	U	2000	110	ug/L			05/07/15 13:04	200
Carbon disulfide	200	U	200	76	ug/L			05/07/15 13:04	200
Carbon tetrachloride	200	U	200	86	ug/L			05/07/15 13:04	200
Chlorobenzene	200	U	200	50	ug/L			05/07/15 13:04	200
Chloroethane	200	U	200	64	ug/L			05/07/15 13:04	200
Chloroform	200	U	200	50	ug/L			05/07/15 13:04	200
Chloromethane	200	U	200	88	ug/L			05/07/15 13:04	200
1,1-Dichloroethane	200	U	200	60	ug/L			05/07/15 13:04	200
1,2-Dichloroethane	200	U	200	46	ug/L			05/07/15 13:04	200
1,1-Dichloroethene	200	U	200	90	ug/L			05/07/15 13:04	200
1,2-Dichloropropane	200	U	200	50	ug/L			05/07/15 13:04	200
cis-1,3-Dichloropropene	200	U	200	92	ug/L			05/07/15 13:04	200
trans-1,3-Dichloropropene	200	U	200	110	ug/L			05/07/15 13:04	200
Ethylbenzene	200	U	200	50	ug/L			05/07/15 13:04	200
2-Hexanone	2000	U	2000	96	ug/L			05/07/15 13:04	200
Methylene Chloride	200	U	200	66	ug/L			05/07/15 13:04	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	200	ug/L			05/07/15 13:04	200
Styrene	200	U	200	90	ug/L			05/07/15 13:04	200
1,1,2,2-Tetrachloroethane	200	U	200	44	ug/L			05/07/15 13:04	200
Tetrachloroethene	200	U	200	62	ug/L			05/07/15 13:04	200
Toluene	200	U	200	46	ug/L			05/07/15 13:04	200
Trichloroethene	200	U	200	44	ug/L			05/07/15 13:04	200
Vinyl chloride	**130**	**J**	200	58	ug/L			05/07/15 13:04	200
Xylenes, Total	400	U	400	100	ug/L			05/07/15 13:04	200
1,1,1-Trichloroethane	200	U	200	88	ug/L			05/07/15 13:04	200
1,1,2-Trichloroethane	200	U	200	48	ug/L			05/07/15 13:04	200
Cyclohexane	200	U	200	90	ug/L			05/07/15 13:04	200
1,2-Dibromo-3-Chloropropane	400	U	400	160	ug/L			05/07/15 13:04	200
Ethylene Dibromide	200	U	200	64	ug/L			05/07/15 13:04	200
Dichlorodifluoromethane	200	U	200	64	ug/L			05/07/15 13:04	200
cis-1,2-Dichloroethene	**4100**		200	52	ug/L			05/07/15 13:04	200
trans-1,2-Dichloroethene	**190**	**J**	200	60	ug/L			05/07/15 13:04	200
Isopropylbenzene	200	U	200	70	ug/L			05/07/15 13:04	200
Methyl acetate	2000	U	2000	450	ug/L			05/07/15 13:04	200
Methyl tert-butyl ether	200	U	200	40	ug/L			05/07/15 13:04	200
1,1,2-Trichloro-1,2,2-trifluoroethane	200	U	200	90	ug/L			05/07/15 13:04	200
1,2,4-Trichlorobenzene	200	U	200	64	ug/L			05/07/15 13:04	200
1,2-Dichlorobenzene	200	U	200	50	ug/L			05/07/15 13:04	200

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042915-SM-016
Date Collected: 04/29/15 09:17
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	200	U	200	38	ug/L			05/07/15 13:04	200
1,4-Dichlorobenzene	200	U	200	54	ug/L			05/07/15 13:04	200
Trichlorofluoromethane	200	U	200	98	ug/L			05/07/15 13:04	200
Chlorodibromomethane	200	U	200	86	ug/L			05/07/15 13:04	200
Methylcyclohexane	200	U	200	86	ug/L			05/07/15 13:04	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 129*		*05/07/15 13:04*	*200*
4-Bromofluorobenzene (Surr)	*73*		*66 - 120*		*05/07/15 13:04*	*200*
Toluene-d8 (Surr)	*93*		*74 - 120*		*05/07/15 13:04*	*200*
Dibromofluoromethane (Surr)	*92*		*75 - 121*		*05/07/15 13:04*	*200*

Client Sample ID: GW-042915-SM-017
Date Collected: 04/29/15 09:37
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3300	U	3300	310	ug/L			05/07/15 12:18	333.33
Benzene	330	U	330	120	ug/L			05/07/15 12:18	333.33
Dichlorobromomethane	330	U	330	97	ug/L			05/07/15 12:18	333.33
Bromoform	330	U	330	190	ug/L			05/07/15 12:18	333.33
Bromomethane	330	U	330	150	ug/L			05/07/15 12:18	333.33
2-Butanone (MEK)	3300	U	3300	180	ug/L			05/07/15 12:18	333.33
Carbon disulfide	330	U	330	130	ug/L			05/07/15 12:18	333.33
Carbon tetrachloride	330	U	330	140	ug/L			05/07/15 12:18	333.33
Chlorobenzene	330	U	330	83	ug/L			05/07/15 12:18	333.33
Chloroethane	330	U	330	110	ug/L			05/07/15 12:18	333.33
Chloroform	330	U	330	83	ug/L			05/07/15 12:18	333.33
Chloromethane	330	U	330	150	ug/L			05/07/15 12:18	333.33
1,1-Dichloroethane	330	U	330	100	ug/L			05/07/15 12:18	333.33
1,2-Dichloroethane	330	U	330	77	ug/L			05/07/15 12:18	333.33
1,1-Dichloroethene	330	U	330	150	ug/L			05/07/15 12:18	333.33
1,2-Dichloropropane	330	U	330	83	ug/L			05/07/15 12:18	333.33
cis-1,3-Dichloropropene	330	U	330	150	ug/L			05/07/15 12:18	333.33
trans-1,3-Dichloropropene	330	U	330	190	ug/L			05/07/15 12:18	333.33
Ethylbenzene	330	U	330	83	ug/L			05/07/15 12:18	333.33
2-Hexanone	3300	U	3300	160	ug/L			05/07/15 12:18	333.33
Methylene Chloride	330	U	330	110	ug/L			05/07/15 12:18	333.33
4-Methyl-2-pentanone (MIBK)	3300	U	3300	330	ug/L			05/07/15 12:18	333.33
Styrene	330	U	330	150	ug/L			05/07/15 12:18	333.33
1,1,2,2-Tetrachloroethane	330	U	330	73	ug/L			05/07/15 12:18	333.33
Tetrachloroethene	330	U	330	100	ug/L			05/07/15 12:18	333.33
Toluene	330	U	330	77	ug/L			05/07/15 12:18	333.33
Trichloroethene	330	U	330	73	ug/L			05/07/15 12:18	333.33
Vinyl chloride	**460**		330	97	ug/L			05/07/15 12:18	333.33
Xylenes, Total	670	U	670	170	ug/L			05/07/15 12:18	333.33
1,1,1-Trichloroethane	330	U	330	150	ug/L			05/07/15 12:18	333.33
1,1,2-Trichloroethane	330	U	330	80	ug/L			05/07/15 12:18	333.33
Cyclohexane	330	U	330	150	ug/L			05/07/15 12:18	333.33
1,2-Dibromo-3-Chloropropane	670	U	670	270	ug/L			05/07/15 12:18	333.33
Ethylene Dibromide	330	U	330	110	ug/L			05/07/15 12:18	333.33

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042915-SM-017
Date Collected: 04/29/15 09:37
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	330	U	330	110	ug/L			05/07/15 12:18	333.33
cis-1,2-Dichloroethene	**6400**		330	87	ug/L			05/07/15 12:18	333.33
trans-1,2-Dichloroethene	**120**	**J**	330	100	ug/L			05/07/15 12:18	333.33
Isopropylbenzene	330	U	330	120	ug/L			05/07/15 12:18	333.33
Methyl acetate	3300	U	3300	760	ug/L			05/07/15 12:18	333.33
Methyl tert-butyl ether	330	U	330	67	ug/L			05/07/15 12:18	333.33
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	330	150	ug/L			05/07/15 12:18	333.33
1,2,4-Trichlorobenzene	330	U	330	110	ug/L			05/07/15 12:18	333.33
1,2-Dichlorobenzene	330	U	330	83	ug/L			05/07/15 12:18	333.33
1,3-Dichlorobenzene	330	U	330	63	ug/L			05/07/15 12:18	333.33
1,4-Dichlorobenzene	330	U	330	90	ug/L			05/07/15 12:18	333.33
Trichlorofluoromethane	330	U	330	160	ug/L			05/07/15 12:18	333.33
Chlorodibromomethane	330	U	330	140	ug/L			05/07/15 12:18	333.33
Methylcyclohexane	330	U	330	140	ug/L			05/07/15 12:18	333.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 129*		*05/07/15 12:18*	*333.33*
4-Bromofluorobenzene (Surr)	*76*		*66 - 120*		*05/07/15 12:18*	*333.33*
Toluene-d8 (Surr)	*94*		*74 - 120*		*05/07/15 12:18*	*333.33*
Dibromofluoromethane (Surr)	*89*		*75 - 121*		*05/07/15 12:18*	*333.33*

Client Sample ID: GW-042915-SM-018
Date Collected: 04/29/15 10:17
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2000	U	2000	190	ug/L			05/07/15 13:26	200
Benzene	200	U	200	70	ug/L			05/07/15 13:26	200
Dichlorobromomethane	200	U	200	58	ug/L			05/07/15 13:26	200
Bromoform	200	U	200	110	ug/L			05/07/15 13:26	200
Bromomethane	200	U	200	88	ug/L			05/07/15 13:26	200
2-Butanone (MEK)	2000	U	2000	110	ug/L			05/07/15 13:26	200
Carbon disulfide	200	U	200	76	ug/L			05/07/15 13:26	200
Carbon tetrachloride	200	U	200	86	ug/L			05/07/15 13:26	200
Chlorobenzene	200	U	200	50	ug/L			05/07/15 13:26	200
Chloroethane	200	U	200	64	ug/L			05/07/15 13:26	200
Chloroform	200	U	200	50	ug/L			05/07/15 13:26	200
Chloromethane	200	U	200	88	ug/L			05/07/15 13:26	200
1,1-Dichloroethane	200	U	200	60	ug/L			05/07/15 13:26	200
1,2-Dichloroethane	200	U	200	46	ug/L			05/07/15 13:26	200
1,1-Dichloroethene	200	U	200	90	ug/L			05/07/15 13:26	200
1,2-Dichloropropane	200	U	200	50	ug/L			05/07/15 13:26	200
cis-1,3-Dichloropropene	200	U	200	92	ug/L			05/07/15 13:26	200
trans-1,3-Dichloropropene	200	U	200	110	ug/L			05/07/15 13:26	200
Ethylbenzene	200	U	200	50	ug/L			05/07/15 13:26	200
2-Hexanone	2000	U	2000	96	ug/L			05/07/15 13:26	200
Methylene Chloride	200	U	200	66	ug/L			05/07/15 13:26	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	200	ug/L			05/07/15 13:26	200
Styrene	200	U	200	90	ug/L			05/07/15 13:26	200
1,1,2,2-Tetrachloroethane	200	U	200	44	ug/L			05/07/15 13:26	200
Tetrachloroethene	200	U	200	62	ug/L			05/07/15 13:26	200

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042915-SM-018
Date Collected: 04/29/15 10:17
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	200	U	200	46	ug/L			05/07/15 13:26	200
Trichloroethene	200	U	200	44	ug/L			05/07/15 13:26	200
Vinyl chloride	**150**	**J**	200	58	ug/L			05/07/15 13:26	200
Xylenes, Total	400	U	400	100	ug/L			05/07/15 13:26	200
1,1,1-Trichloroethane	200	U	200	88	ug/L			05/07/15 13:26	200
1,1,2-Trichloroethane	200	U	200	48	ug/L			05/07/15 13:26	200
Cyclohexane	200	U	200	90	ug/L			05/07/15 13:26	200
1,2-Dibromo-3-Chloropropane	400	U	400	160	ug/L			05/07/15 13:26	200
Ethylene Dibromide	200	U	200	64	ug/L			05/07/15 13:26	200
Dichlorodifluoromethane	200	U	200	64	ug/L			05/07/15 13:26	200
cis-1,2-Dichloroethene	**4500**		200	52	ug/L			05/07/15 13:26	200
trans-1,2-Dichloroethene	200	U	200	60	ug/L			05/07/15 13:26	200
Isopropylbenzene	200	U	200	70	ug/L			05/07/15 13:26	200
Methyl acetate	2000	U	2000	450	ug/L			05/07/15 13:26	200
Methyl tert-butyl ether	200	U	200	40	ug/L			05/07/15 13:26	200
1,1,2-Trichloro-1,2,2-trifluoroethane	200	U	200	90	ug/L			05/07/15 13:26	200
1,2,4-Trichlorobenzene	200	U	200	64	ug/L			05/07/15 13:26	200
1,2-Dichlorobenzene	200	U	200	50	ug/L			05/07/15 13:26	200
1,3-Dichlorobenzene	200	U	200	38	ug/L			05/07/15 13:26	200
1,4-Dichlorobenzene	200	U	200	54	ug/L			05/07/15 13:26	200
Trichlorofluoromethane	200	U	200	98	ug/L			05/07/15 13:26	200
Chlorodibromomethane	200	U	200	86	ug/L			05/07/15 13:26	200
Methylcyclohexane	200	U	200	86	ug/L			05/07/15 13:26	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 129*		*05/07/15 13:26*	*200*
4-Bromofluorobenzene (Surr)	*74*		*66 - 120*		*05/07/15 13:26*	*200*
Toluene-d8 (Surr)	*92*		*74 - 120*		*05/07/15 13:26*	*200*
Dibromofluoromethane (Surr)	*90*		*75 - 121*		*05/07/15 13:26*	*200*

Client Sample ID: GW-042915-SM-019
Date Collected: 04/29/15 10:20
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-23
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2000	U	2000	190	ug/L			05/07/15 13:49	200
Benzene	200	U	200	70	ug/L			05/07/15 13:49	200
Dichlorobromomethane	200	U	200	58	ug/L			05/07/15 13:49	200
Bromoform	200	U	200	110	ug/L			05/07/15 13:49	200
Bromomethane	200	U	200	88	ug/L			05/07/15 13:49	200
2-Butanone (MEK)	2000	U	2000	110	ug/L			05/07/15 13:49	200
Carbon disulfide	200	U	200	76	ug/L			05/07/15 13:49	200
Carbon tetrachloride	200	U	200	86	ug/L			05/07/15 13:49	200
Chlorobenzene	200	U	200	50	ug/L			05/07/15 13:49	200
Chloroethane	200	U	200	64	ug/L			05/07/15 13:49	200
Chloroform	200	U	200	50	ug/L			05/07/15 13:49	200
Chloromethane	200	U	200	88	ug/L			05/07/15 13:49	200
1,1-Dichloroethane	200	U	200	60	ug/L			05/07/15 13:49	200
1,2-Dichloroethane	200	U	200	46	ug/L			05/07/15 13:49	200
1,1-Dichloroethene	200	U	200	90	ug/L			05/07/15 13:49	200
1,2-Dichloropropane	200	U	200	50	ug/L			05/07/15 13:49	200

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042915-SM-019
Date Collected: 04/29/15 10:20
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-23
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	200	U	200	92	ug/L			05/07/15 13:49	200
trans-1,3-Dichloropropene	200	U	200	110	ug/L			05/07/15 13:49	200
Ethylbenzene	200	U	200	50	ug/L			05/07/15 13:49	200
2-Hexanone	2000	U	2000	96	ug/L			05/07/15 13:49	200
Methylene Chloride	200	U	200	66	ug/L			05/07/15 13:49	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	200	ug/L			05/07/15 13:49	200
Styrene	200	U	200	90	ug/L			05/07/15 13:49	200
1,1,2,2-Tetrachloroethane	200	U	200	44	ug/L			05/07/15 13:49	200
Tetrachloroethene	200	U	200	62	ug/L			05/07/15 13:49	200
Toluene	200	U	200	46	ug/L			05/07/15 13:49	200
Trichloroethene	200	U	200	44	ug/L			05/07/15 13:49	200
Vinyl chloride	**150**	**J**	200	58	ug/L			05/07/15 13:49	200
Xylenes, Total	400	U	400	100	ug/L			05/07/15 13:49	200
1,1,1-Trichloroethane	200	U	200	88	ug/L			05/07/15 13:49	200
1,1,2-Trichloroethane	200	U	200	48	ug/L			05/07/15 13:49	200
Cyclohexane	200	U	200	90	ug/L			05/07/15 13:49	200
1,2-Dibromo-3-Chloropropane	400	U	400	160	ug/L			05/07/15 13:49	200
Ethylene Dibromide	200	U	200	64	ug/L			05/07/15 13:49	200
Dichlorodifluoromethane	200	U	200	64	ug/L			05/07/15 13:49	200
cis-1,2-Dichloroethene	**4800**		200	52	ug/L			05/07/15 13:49	200
trans-1,2-Dichloroethene	200	U	200	60	ug/L			05/07/15 13:49	200
Isopropylbenzene	200	U	200	70	ug/L			05/07/15 13:49	200
Methyl acetate	2000	U	2000	450	ug/L			05/07/15 13:49	200
Methyl tert-butyl ether	200	U	200	40	ug/L			05/07/15 13:49	200
1,1,2-Trichloro-1,2,2-trifluoroethane	200	U	200	90	ug/L			05/07/15 13:49	200
1,2,4-Trichlorobenzene	200	U	200	64	ug/L			05/07/15 13:49	200
1,2-Dichlorobenzene	200	U	200	50	ug/L			05/07/15 13:49	200
1,3-Dichlorobenzene	200	U	200	38	ug/L			05/07/15 13:49	200
1,4-Dichlorobenzene	200	U	200	54	ug/L			05/07/15 13:49	200
Trichlorofluoromethane	200	U	200	98	ug/L			05/07/15 13:49	200
Chlorodibromomethane	200	U	200	86	ug/L			05/07/15 13:49	200
Methylcyclohexane	200	U	200	86	ug/L			05/07/15 13:49	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*63 - 129*		*05/07/15 13:49*	*200*
4-Bromofluorobenzene (Surr)	*71*		*66 - 120*		*05/07/15 13:49*	*200*
Toluene-d8 (Surr)	*93*		*74 - 120*		*05/07/15 13:49*	*200*
Dibromofluoromethane (Surr)	*91*		*75 - 121*		*05/07/15 13:49*	*200*

Client Sample ID: GW-042915-SM-020
Date Collected: 04/29/15 11:17
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-24
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1000	U	1000	94	ug/L			05/07/15 01:48	100
Benzene	100	U	100	35	ug/L			05/07/15 01:48	100
Dichlorobromomethane	100	U	100	29	ug/L			05/07/15 01:48	100
Bromoform	100	U	100	56	ug/L			05/07/15 01:48	100
Bromomethane	100	U	100	44	ug/L			05/07/15 01:48	100
2-Butanone (MEK)	1000	U	1000	53	ug/L			05/07/15 01:48	100
Carbon disulfide	100	U	100	38	ug/L			05/07/15 01:48	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-042915-SM-020
Date Collected: 04/29/15 11:17
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-24
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	100	U	100	43	ug/L			05/07/15 01:48	100
Chlorobenzene	100	U	100	25	ug/L			05/07/15 01:48	100
Chloroethane	100	U	100	32	ug/L			05/07/15 01:48	100
Chloroform	100	U	100	25	ug/L			05/07/15 01:48	100
Chloromethane	100	U	100	44	ug/L			05/07/15 01:48	100
1,1-Dichloroethane	100	U	100	30	ug/L			05/07/15 01:48	100
1,2-Dichloroethane	100	U	100	23	ug/L			05/07/15 01:48	100
1,1-Dichloroethene	100	U	100	45	ug/L			05/07/15 01:48	100
1,2-Dichloropropane	100	U	100	25	ug/L			05/07/15 01:48	100
cis-1,3-Dichloropropene	100	U	100	46	ug/L			05/07/15 01:48	100
trans-1,3-Dichloropropene	100	U	100	56	ug/L			05/07/15 01:48	100
Ethylbenzene	100	U	100	25	ug/L			05/07/15 01:48	100
2-Hexanone	1000	U	1000	48	ug/L			05/07/15 01:48	100
Methylene Chloride	100	U	100	33	ug/L			05/07/15 01:48	100
4-Methyl-2-pentanone (MIBK)	1000	U	1000	99	ug/L			05/07/15 01:48	100
Styrene	100	U	100	45	ug/L			05/07/15 01:48	100
1,1,2,2-Tetrachloroethane	100	U	100	22	ug/L			05/07/15 01:48	100
Tetrachloroethene	100	U F1	100	31	ug/L			05/07/15 01:48	100
Toluene	100	U	100	23	ug/L			05/07/15 01:48	100
Trichloroethene	100	U	100	22	ug/L			05/07/15 01:48	100
Vinyl chloride	**150**		100	29	ug/L			05/07/15 01:48	100
Xylenes, Total	200	U	200	52	ug/L			05/07/15 01:48	100
1,1,1-Trichloroethane	100	U	100	44	ug/L			05/07/15 01:48	100
1,1,2-Trichloroethane	100	U	100	24	ug/L			05/07/15 01:48	100
Cyclohexane	100	U F2	100	45	ug/L			05/07/15 01:48	100
1,2-Dibromo-3-Chloropropane	200	U	200	82	ug/L			05/07/15 01:48	100
Ethylene Dibromide	100	U	100	32	ug/L			05/07/15 01:48	100
Dichlorodifluoromethane	100	U	100	32	ug/L			05/07/15 01:48	100
cis-1,2-Dichloroethene	**2400**		100	26	ug/L			05/07/15 01:48	100
trans-1,2-Dichloroethene	**99**	**J**	100	30	ug/L			05/07/15 01:48	100
Isopropylbenzene	100	U	100	35	ug/L			05/07/15 01:48	100
Methyl acetate	1000	U	1000	230	ug/L			05/07/15 01:48	100
Methyl tert-butyl ether	100	U	100	20	ug/L			05/07/15 01:48	100
1,1,2-Trichloro-1,2,2-trifluoroethane	100	U F2 F1	100	45	ug/L			05/07/15 01:48	100
1,2,4-Trichlorobenzene	100	U	100	32	ug/L			05/07/15 01:48	100
1,2-Dichlorobenzene	100	U	100	25	ug/L			05/07/15 01:48	100
1,3-Dichlorobenzene	100	U	100	19	ug/L			05/07/15 01:48	100
1,4-Dichlorobenzene	100	U F1	100	27	ug/L			05/07/15 01:48	100
Trichlorofluoromethane	100	U	100	49	ug/L			05/07/15 01:48	100
Chlorodibromomethane	100	U	100	43	ug/L			05/07/15 01:48	100
Methylcyclohexane	100	U F2 F1	100	43	ug/L			05/07/15 01:48	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 129*		*05/07/15 01:48*	*100*
4-Bromofluorobenzene (Surr)	*92*		*66 - 120*		*05/07/15 01:48*	*100*
Toluene-d8 (Surr)	*93*		*74 - 120*		*05/07/15 01:48*	*100*
Dibromofluoromethane (Surr)	*96*		*75 - 121*		*05/07/15 01:48*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: RB-042915-SM-003
Date Collected: 04/29/15 10:30
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-25
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			05/07/15 02:10	1
Benzene	1.0	U	1.0	0.35	ug/L			05/07/15 02:10	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/07/15 02:10	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/07/15 02:10	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/07/15 02:10	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/07/15 02:10	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/07/15 02:10	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/07/15 02:10	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 02:10	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/07/15 02:10	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/07/15 02:10	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/07/15 02:10	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/07/15 02:10	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/07/15 02:10	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/07/15 02:10	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/07/15 02:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/07/15 02:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/07/15 02:10	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/07/15 02:10	1
2-Hexanone	10	U	10	0.48	ug/L			05/07/15 02:10	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/07/15 02:10	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/07/15 02:10	1
Styrene	1.0	U	1.0	0.45	ug/L			05/07/15 02:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/07/15 02:10	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/07/15 02:10	1
Toluene	1.0	U	1.0	0.23	ug/L			05/07/15 02:10	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/07/15 02:10	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/07/15 02:10	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/07/15 02:10	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/07/15 02:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/07/15 02:10	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/07/15 02:10	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/07/15 02:10	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/07/15 02:10	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/07/15 02:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/07/15 02:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/07/15 02:10	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/07/15 02:10	1
Methyl acetate	10	U	10	2.3	ug/L			05/07/15 02:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/07/15 02:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/07/15 02:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/07/15 02:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 02:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/07/15 02:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/07/15 02:10	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/07/15 02:10	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/07/15 02:10	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/07/15 02:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 129*		*05/07/15 02:10*	*1*
4-Bromofluorobenzene (Surr)	*94*		*66 - 120*		*05/07/15 02:10*	*1*
Toluene-d8 (Surr)	*93*		*74 - 120*		*05/07/15 02:10*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*		*05/07/15 02:10*	*1*

Client Sample ID: TB-042915-SM-001
Date Collected: 04/29/15 12:00
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-26
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			05/07/15 02:32	1
Benzene	1.0	U	1.0	0.35	ug/L			05/07/15 02:32	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/07/15 02:32	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/07/15 02:32	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/07/15 02:32	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/07/15 02:32	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/07/15 02:32	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/07/15 02:32	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 02:32	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/07/15 02:32	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/07/15 02:32	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/07/15 02:32	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/07/15 02:32	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/07/15 02:32	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/07/15 02:32	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/07/15 02:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/07/15 02:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/07/15 02:32	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/07/15 02:32	1
2-Hexanone	10	U	10	0.48	ug/L			05/07/15 02:32	1
Methylene Chloride	**0.91**	**J**	1.0	0.33	ug/L			05/07/15 02:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/07/15 02:32	1
Styrene	1.0	U	1.0	0.45	ug/L			05/07/15 02:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/07/15 02:32	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/07/15 02:32	1
Toluene	1.0	U	1.0	0.23	ug/L			05/07/15 02:32	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/07/15 02:32	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/07/15 02:32	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/07/15 02:32	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/07/15 02:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/07/15 02:32	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/07/15 02:32	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/07/15 02:32	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/07/15 02:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/07/15 02:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/07/15 02:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/07/15 02:32	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/07/15 02:32	1
Methyl acetate	10	U	10	2.3	ug/L			05/07/15 02:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/07/15 02:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/07/15 02:32	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/07/15 02:32	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 02:32	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-042915-SM-001
Date Collected: 04/29/15 12:00
Date Received: 04/30/15 10:30

Lab Sample ID: 240-50057-26
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/07/15 02:32	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/07/15 02:32	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/07/15 02:32	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/07/15 02:32	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/07/15 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 129*		*05/07/15 02:32*	*1*
4-Bromofluorobenzene (Surr)	*93*		*66 - 120*		*05/07/15 02:32*	*1*
Toluene-d8 (Surr)	*93*		*74 - 120*		*05/07/15 02:32*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*		*05/07/15 02:32*	*1*

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-50057-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(63-129)	(66-120)	(74-120)	(75-121)
240-50057-1	SW-042715-SM-001	101	93	96	96
240-50057-2	SW-042715-SM-002	93	78	94	92
240-50057-3	GW-042715-SM-001	101	92	95	98
240-50057-4	GW-042715-SM-002	101	90	98	95
240-50057-5	GW-042715-SM-003	103	92	95	100
240-50057-6	GW-042715-SM-004	102	93	96	98
240-50057-7	GW-042815-SM-005	105	92	95	99
240-50057-8	GW-042815-SM-006	100	92	96	99
240-50057-9	GW-042815-SM-007	101	94	98	98
240-50057-10	GW-042815-SM-008	102	90	97	101
240-50057-11	GW-042815-SM-009	102	95	95	105
240-50057-12	GW-042815-SM-010	100	93	97	100
240-50057-13	GW-042815-SM-011	103	91	96	100
240-50057-14	GW-042815-SM-012	105	91	94	100
240-50057-15	GW-042815-SM-013	102	91	93	99
240-50057-16	GW-042815-SM-014	102	93	99	101
240-50057-16 MS	GW-042815-SM-014	98	97	98	99
240-50057-16 MSD	GW-042815-SM-014	99	95	97	97
240-50057-17	RB-042815-SM-001	102	97	97	97
240-50057-18	RB-042815-SM-002	102	98	97	98
240-50057-19	GW-042915-SM-015	92	75	93	91
240-50057-20	GW-042915-SM-016	95	73	93	92
240-50057-21	GW-042915-SM-017	91	76	94	89
240-50057-21 MS	GW-042915-SM-017	91	89	98	88
240-50057-21 MSD	GW-042915-SM-017	87	90	96	87
240-50057-22	GW-042915-SM-018	91	74	92	90
240-50057-23	GW-042915-SM-019	93	71	93	91
240-50057-24	GW-042915-SM-020	97	92	93	96
240-50057-24 MS	GW-042915-SM-020	94	104	99	99
240-50057-24 MSD	GW-042915-SM-020	96	105	102	100
240-50057-25	RB-042915-SM-003	100	94	93	98
240-50057-26	TB-042915-SM-001	102	93	93	97
LCS 240-179627/4	Lab Control Sample	94	103	99	98
LCS 240-179681/5	Lab Control Sample	87	91	97	85
LCS 240-179760/4	Lab Control Sample	100	96	99	98
LCS 240-180175/4	Lab Control Sample	89	92	96	88
MB 240-179627/5	Method Blank	101	98	98	96
MB 240-179681/7	Method Blank	92	71	94	91
MB 240-179760/6	Method Blank	102	92	95	97
MB 240-180175/6	Method Blank	95	81	96	88

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-179627/5
Matrix: Water
Analysis Batch: 179627

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			05/07/15 00:41	1
Benzene	1.0	U	1.0	0.35	ug/L			05/07/15 00:41	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/07/15 00:41	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/07/15 00:41	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/07/15 00:41	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/07/15 00:41	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/07/15 00:41	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/07/15 00:41	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 00:41	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/07/15 00:41	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/07/15 00:41	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/07/15 00:41	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/07/15 00:41	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/07/15 00:41	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/07/15 00:41	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/07/15 00:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/07/15 00:41	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/07/15 00:41	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/07/15 00:41	1
2-Hexanone	10	U	10	0.48	ug/L			05/07/15 00:41	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/07/15 00:41	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/07/15 00:41	1
Styrene	1.0	U	1.0	0.45	ug/L			05/07/15 00:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/07/15 00:41	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/07/15 00:41	1
Toluene	1.0	U	1.0	0.23	ug/L			05/07/15 00:41	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/07/15 00:41	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/07/15 00:41	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/07/15 00:41	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/07/15 00:41	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/07/15 00:41	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/07/15 00:41	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/07/15 00:41	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/07/15 00:41	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/07/15 00:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/07/15 00:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/07/15 00:41	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/07/15 00:41	1
Methyl acetate	10	U	10	2.3	ug/L			05/07/15 00:41	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/07/15 00:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/07/15 00:41	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/07/15 00:41	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 00:41	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/07/15 00:41	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/07/15 00:41	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/07/15 00:41	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/07/15 00:41	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/07/15 00:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 129		05/07/15 00:41	1
4-Bromofluorobenzene (Surr)	98		66 - 120		05/07/15 00:41	1
Toluene-d8 (Surr)	98		74 - 120		05/07/15 00:41	1
Dibromofluoromethane (Surr)	96		75 - 121		05/07/15 00:41	1

Lab Sample ID: LCS 240-179627/4
Matrix: Water
Analysis Batch: 179627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	15.0		ug/L		75	43 - 136
Benzene	10.0	10.2		ug/L		102	80 - 120
Dichlorobromomethane	10.0	9.90		ug/L		99	72 - 121
Bromoform	10.0	7.26		ug/L		73	40 - 131
Bromomethane	10.0	7.56		ug/L		76	11 - 185
2-Butanone (MEK)	20.0	18.0		ug/L		90	60 - 126
Carbon disulfide	10.0	11.8		ug/L		118	62 - 142
Carbon tetrachloride	10.0	9.31		ug/L		93	66 - 128
Chlorobenzene	10.0	9.27		ug/L		93	80 - 120
Chloroethane	10.0	8.71		ug/L		87	25 - 153
Chloroform	10.0	10.3		ug/L		103	79 - 120
Chloromethane	10.0	8.37		ug/L		84	44 - 126
1,1-Dichloroethane	10.0	10.8		ug/L		108	80 - 120
1,2-Dichloroethane	10.0	10.0		ug/L		100	71 - 127
1,1-Dichloroethene	10.0	10.5		ug/L		105	78 - 131
1,2-Dichloropropane	10.0	10.6		ug/L		106	80 - 120
cis-1,3-Dichloropropene	10.0	8.99		ug/L		90	61 - 120
trans-1,3-Dichloropropene	10.0	8.92		ug/L		89	58 - 120
Ethylbenzene	10.0	9.36		ug/L		94	80 - 120
2-Hexanone	20.0	18.4		ug/L		92	55 - 133
Methylene Chloride	10.0	10.5		ug/L		105	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	19.8		ug/L		99	63 - 128
Styrene	10.0	10.2		ug/L		102	79 - 120
1,1,2,2-Tetrachloroethane	10.0	9.88		ug/L		99	68 - 120
Tetrachloroethene	10.0	8.82		ug/L		88	79 - 120
Toluene	10.0	9.75		ug/L		98	80 - 120
Trichloroethene	10.0	9.50		ug/L		95	76 - 120
Vinyl chloride	10.0	8.40		ug/L		84	53 - 127
Xylenes, Total	20.0	18.8		ug/L		94	80 - 120
1,1,1-Trichloroethane	10.0	10.0		ug/L		100	74 - 120
1,1,2-Trichloroethane	10.0	9.78		ug/L		98	80 - 120
Cyclohexane	10.0	9.98		ug/L		100	54 - 121
1,2-Dibromo-3-Chloropropane	10.0	7.24		ug/L		72	42 - 136
Ethylene Dibromide	10.0	9.59		ug/L		96	79 - 120
Dichlorodifluoromethane	10.0	5.65		ug/L		57	19 - 129
cis-1,2-Dichloroethene	10.0	10.0		ug/L		100	80 - 120
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	80 - 120
Isopropylbenzene	10.0	8.82		ug/L		88	75 - 120
Methyl acetate	50.0	49.4		ug/L		99	58 - 131
Methyl tert-butyl ether	10.0	9.52		ug/L		95	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.71		ug/L		87	74 - 151
1,2,4-Trichlorobenzene	10.0	7.97		ug/L		80	48 - 135
1,2-Dichlorobenzene	10.0	8.92		ug/L		89	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-179627/4
Matrix: Water
Analysis Batch: 179627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	10.0	8.82		ug/L		88	80 - 120
1,4-Dichlorobenzene	10.0	8.75		ug/L		88	80 - 120
Trichlorofluoromethane	10.0	7.08		ug/L		71	49 - 157
Chlorodibromomethane	10.0	8.35		ug/L		83	64 - 120
Methylcyclohexane	10.0	9.16		ug/L		92	56 - 127
m-Xylene & p-Xylene	10.0	9.41		ug/L		94	80 - 120
o-Xylene	10.0	9.36		ug/L		94	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*63 - 129*
4-Bromofluorobenzene (Surr)	*103*		*66 - 120*
Toluene-d8 (Surr)	*99*		*74 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 121*

Lab Sample ID: 240-50057-24 MS
Matrix: Water
Analysis Batch: 179627

Client Sample ID: GW-042915-SM-020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	1000	U	2000	1400		ug/L		70	33 - 145
Benzene	100	U	1000	927		ug/L		93	72 - 121
Dichlorobromomethane	100	U	1000	909		ug/L		91	67 - 120
Bromoform	100	U	1000	644		ug/L		64	32 - 128
Bromomethane	100	U	1000	807		ug/L		81	10 - 186
2-Butanone (MEK)	1000	U	2000	1660		ug/L		83	54 - 129
Carbon disulfide	100	U	1000	980		ug/L		98	57 - 147
Carbon tetrachloride	100	U	1000	722		ug/L		72	59 - 129
Chlorobenzene	100	U	1000	805		ug/L		80	80 - 120
Chloroethane	100	U	1000	891		ug/L		89	21 - 165
Chloroform	100	U	1000	965		ug/L		96	76 - 120
Chloromethane	100	U	1000	858		ug/L		86	33 - 132
1,1-Dichloroethane	100	U	1000	1010		ug/L		101	79 - 120
1,2-Dichloroethane	100	U	1000	933		ug/L		93	68 - 129
1,1-Dichloroethene	100	U	1000	905		ug/L		91	74 - 135
1,2-Dichloropropane	100	U	1000	973		ug/L		97	78 - 120
cis-1,3-Dichloropropene	100	U	1000	764		ug/L		76	51 - 120
trans-1,3-Dichloropropene	100	U	1000	754		ug/L		75	46 - 120
Ethylbenzene	100	U	1000	765		ug/L		77	75 - 120
2-Hexanone	1000	U	2000	1510		ug/L		75	47 - 139
Methylene Chloride	100	U	1000	1010		ug/L		101	63 - 128
4-Methyl-2-pentanone (MIBK)	1000	U	2000	1640		ug/L		82	56 - 131
Styrene	100	U	1000	895		ug/L		90	71 - 120
1,1,2,2-Tetrachloroethane	100	U	1000	894		ug/L		89	63 - 122
Tetrachloroethene	100	U F1	1000	662	F1	ug/L		66	70 - 120
Toluene	100	U	1000	845		ug/L		84	78 - 120
Trichloroethene	100	U	1000	807		ug/L		81	66 - 120
Vinyl chloride	150		1000	985		ug/L		83	49 - 130
Xylenes, Total	200	U	2000	1580		ug/L		79	76 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-50057-24 MS
Matrix: Water
Analysis Batch: 179627

Client Sample ID: GW-042915-SM-020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	100	U	1000	857		ug/L		86	68 - 121
1,1,2-Trichloroethane	100	U	1000	912		ug/L		91	75 - 120
Cyclohexane	100	U F2	1000	512		ug/L		51	49 - 123
1,2-Dibromo-3-Chloropropane	200	U	1000	610		ug/L		61	32 - 139
Ethylene Dibromide	100	U	1000	868		ug/L		87	74 - 120
Dichlorodifluoromethane	100	U	1000	515		ug/L		51	17 - 128
cis-1,2-Dichloroethene	2400		1000	3190		ug/L		81	70 - 120
trans-1,2-Dichloroethene	99	J	1000	1050		ug/L		95	80 - 120
Isopropylbenzene	100	U	1000	696		ug/L		70	68 - 120
Methyl acetate	1000	U	5000	4430		ug/L		89	47 - 130
Methyl tert-butyl ether	100	U	1000	849		ug/L		85	46 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	100	U F2 F1	1000	499	F1	ug/L		50	70 - 152
1,2,4-Trichlorobenzene	100	U	1000	658		ug/L		66	38 - 138
1,2-Dichlorobenzene	100	U	1000	767		ug/L		77	75 - 120
1,3-Dichlorobenzene	100	U	1000	744		ug/L		74	73 - 120
1,4-Dichlorobenzene	100	U F1	1000	742	F1	ug/L		74	75 - 120
Trichlorofluoromethane	100	U	1000	693		ug/L		69	46 - 157
Chlorodibromomethane	100	U	1000	746		ug/L		75	56 - 120
Methylcyclohexane	100	U F2 F1	1000	452	F1	ug/L		45	49 - 127
m-Xylene & p-Xylene	200	U	1000	781		ug/L		78	75 - 120
o-Xylene	100	U	1000	797		ug/L		80	76 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*63 - 129*
4-Bromofluorobenzene (Surr)	*104*		*66 - 120*
Toluene-d8 (Surr)	*99*		*74 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 121*

Lab Sample ID: 240-50057-24 MSD
Matrix: Water
Analysis Batch: 179627

Client Sample ID: GW-042915-SM-020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	1000	U	2000	1430		ug/L		72	33 - 145	2	30
Benzene	100	U	1000	974		ug/L		97	72 - 121	5	30
Dichlorobromomethane	100	U	1000	955		ug/L		96	67 - 120	5	30
Bromoform	100	U	1000	669		ug/L		67	32 - 128	4	30
Bromomethane	100	U	1000	887		ug/L		89	10 - 186	9	30
2-Butanone (MEK)	1000	U	2000	1820		ug/L		91	54 - 129	9	30
Carbon disulfide	100	U	1000	1070		ug/L		107	57 - 147	9	30
Carbon tetrachloride	100	U	1000	847		ug/L		85	59 - 129	16	30
Chlorobenzene	100	U	1000	848		ug/L		85	80 - 120	5	30
Chloroethane	100	U	1000	904		ug/L		90	21 - 165	1	30
Chloroform	100	U	1000	1020		ug/L		102	76 - 120	5	30
Chloromethane	100	U	1000	860		ug/L		86	33 - 132	0	30
1,1-Dichloroethane	100	U	1000	1060		ug/L		106	79 - 120	5	30
1,2-Dichloroethane	100	U	1000	983		ug/L		98	68 - 129	5	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-50057-24 MSD
Matrix: Water
Analysis Batch: 179627

Client Sample ID: GW-042915-SM-020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	100	U	1000	978		ug/L		98	74 - 135	8	30
1,2-Dichloropropane	100	U	1000	1020		ug/L		102	78 - 120	5	30
cis-1,3-Dichloropropene	100	U	1000	835		ug/L		83	51 - 120	9	30
trans-1,3-Dichloropropene	100	U	1000	823		ug/L		82	46 - 120	9	30
Ethylbenzene	100	U	1000	810		ug/L		81	75 - 120	6	30
2-Hexanone	1000	U	2000	1680		ug/L		84	47 - 139	11	30
Methylene Chloride	100	U	1000	1080		ug/L		108	63 - 128	6	30
4-Methyl-2-pentanone (MIBK)	1000	U	2000	1840		ug/L		92	56 - 131	12	30
Styrene	100	U	1000	926		ug/L		93	71 - 120	3	30
1,1,2,2-Tetrachloroethane	100	U	1000	951		ug/L		95	63 - 122	6	30
Tetrachloroethene	100	U F1	1000	743		ug/L		74	70 - 120	12	30
Toluene	100	U	1000	892		ug/L		89	78 - 120	5	30
Trichloroethene	100	U	1000	863		ug/L		86	66 - 120	7	30
Vinyl chloride	150		1000	976		ug/L		82	49 - 130	1	30
Xylenes, Total	200	U	2000	1670		ug/L		84	76 - 120	6	30
1,1,1-Trichloroethane	100	U	1000	931		ug/L		93	68 - 121	8	30
1,1,2-Trichloroethane	100	U	1000	949		ug/L		95	75 - 120	4	30
Cyclohexane	100	U F2	1000	773	F2	ug/L		77	49 - 123	41	30
1,2-Dibromo-3-Chloropropane	200	U	1000	673		ug/L		67	32 - 139	10	30
Ethylene Dibromide	100	U	1000	921		ug/L		92	74 - 120	6	30
Dichlorodifluoromethane	100	U	1000	487		ug/L		49	17 - 128	6	30
cis-1,2-Dichloroethene	2400		1000	3280		ug/L		90	70 - 120	3	30
trans-1,2-Dichloroethene	99	J	1000	1090		ug/L		99	80 - 120	4	30
Isopropylbenzene	100	U	1000	748		ug/L		75	68 - 120	7	30
Methyl acetate	1000	U	5000	4680		ug/L		94	47 - 130	6	30
Methyl tert-butyl ether	100	U	1000	919		ug/L		92	46 - 144	8	30
1,1,2-Trichloro-1,2,2-trifluoroethane	100	U F2 F1	1000	716	F2	ug/L		72	70 - 152	36	30
1,2,4-Trichlorobenzene	100	U	1000	703		ug/L		70	38 - 138	7	30
1,2-Dichlorobenzene	100	U	1000	793		ug/L		79	75 - 120	3	30
1,3-Dichlorobenzene	100	U	1000	775		ug/L		78	73 - 120	4	30
1,4-Dichlorobenzene	100	U F1	1000	769		ug/L		77	75 - 120	4	30
Trichlorofluoromethane	100	U	1000	695		ug/L		69	46 - 157	0	30
Chlorodibromomethane	100	U	1000	793		ug/L		79	56 - 120	6	30
Methylcyclohexane	100	U F2 F1	1000	688	F2	ug/L		69	49 - 127	41	30
m-Xylene & p-Xylene	200	U	1000	823		ug/L		82	75 - 120	5	30
o-Xylene	100	U	1000	849		ug/L		85	76 - 120	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 129*
4-Bromofluorobenzene (Surr)	*105*		*66 - 120*
Toluene-d8 (Surr)	*102*		*74 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 121*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-179681/7
Matrix: Water
Analysis Batch: 179681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			05/07/15 10:48	1
Benzene	1.0	U	1.0	0.35	ug/L			05/07/15 10:48	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/07/15 10:48	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/07/15 10:48	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/07/15 10:48	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/07/15 10:48	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/07/15 10:48	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/07/15 10:48	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 10:48	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/07/15 10:48	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/07/15 10:48	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/07/15 10:48	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/07/15 10:48	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/07/15 10:48	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/07/15 10:48	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/07/15 10:48	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/07/15 10:48	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/07/15 10:48	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/07/15 10:48	1
2-Hexanone	10	U	10	0.48	ug/L			05/07/15 10:48	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/07/15 10:48	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/07/15 10:48	1
Styrene	1.0	U	1.0	0.45	ug/L			05/07/15 10:48	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/07/15 10:48	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/07/15 10:48	1
Toluene	1.0	U	1.0	0.23	ug/L			05/07/15 10:48	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/07/15 10:48	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/07/15 10:48	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/07/15 10:48	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/07/15 10:48	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/07/15 10:48	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/07/15 10:48	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/07/15 10:48	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/07/15 10:48	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/07/15 10:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/07/15 10:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/07/15 10:48	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/07/15 10:48	1
Methyl acetate	10	U	10	2.3	ug/L			05/07/15 10:48	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/07/15 10:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/07/15 10:48	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/07/15 10:48	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 10:48	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/07/15 10:48	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/07/15 10:48	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/07/15 10:48	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/07/15 10:48	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/07/15 10:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 129		05/07/15 10:48	1
4-Bromofluorobenzene (Surr)	71		66 - 120		05/07/15 10:48	1
Toluene-d8 (Surr)	94		74 - 120		05/07/15 10:48	1
Dibromofluoromethane (Surr)	91		75 - 121		05/07/15 10:48	1

Lab Sample ID: LCS 240-179681/5
Matrix: Water
Analysis Batch: 179681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	18.8		ug/L		94	43 - 136
Benzene	10.0	9.34		ug/L		93	80 - 120
Dichlorobromomethane	10.0	8.76		ug/L		88	72 - 121
Bromoform	10.0	8.19		ug/L		82	40 - 131
Bromomethane	10.0	7.44		ug/L		74	11 - 185
2-Butanone (MEK)	20.0	18.5		ug/L		92	60 - 126
Carbon disulfide	10.0	11.5		ug/L		115	62 - 142
Carbon tetrachloride	10.0	10.7		ug/L		107	66 - 128
Chlorobenzene	10.0	9.27		ug/L		93	80 - 120
Chloroethane	10.0	7.83		ug/L		78	25 - 153
Chloroform	10.0	9.29		ug/L		93	79 - 120
Chloromethane	10.0	8.26		ug/L		83	44 - 126
1,1-Dichloroethane	10.0	9.39		ug/L		94	80 - 120
1,2-Dichloroethane	10.0	9.23		ug/L		92	71 - 127
1,1-Dichloroethene	10.0	10.8		ug/L		108	78 - 131
1,2-Dichloropropane	10.0	9.89		ug/L		99	80 - 120
cis-1,3-Dichloropropene	10.0	9.97		ug/L		100	61 - 120
trans-1,3-Dichloropropene	10.0	10.7		ug/L		107	58 - 120
Ethylbenzene	10.0	9.42		ug/L		94	80 - 120
2-Hexanone	20.0	20.4		ug/L		102	55 - 133
Methylene Chloride	10.0	9.85		ug/L		99	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	19.2		ug/L		96	63 - 128
Styrene	10.0	8.89		ug/L		89	79 - 120
1,1,2,2-Tetrachloroethane	10.0	9.24		ug/L		92	68 - 120
Tetrachloroethene	10.0	10.2		ug/L		102	79 - 120
Toluene	10.0	10.0		ug/L		100	80 - 120
Trichloroethene	10.0	9.70		ug/L		97	76 - 120
Vinyl chloride	10.0	7.63		ug/L		76	53 - 127
Xylenes, Total	20.0	19.2		ug/L		96	80 - 120
1,1,1-Trichloroethane	10.0	9.58		ug/L		96	74 - 120
1,1,2-Trichloroethane	10.0	9.79		ug/L		98	80 - 120
Cyclohexane	10.0	11.2		ug/L		112	54 - 121
1,2-Dibromo-3-Chloropropane	10.0	8.51		ug/L		85	42 - 136
Ethylene Dibromide	10.0	10.0		ug/L		100	79 - 120
Dichlorodifluoromethane	10.0	7.79		ug/L		78	19 - 129
cis-1,2-Dichloroethene	10.0	9.10		ug/L		91	80 - 120
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	80 - 120
Isopropylbenzene	10.0	9.56		ug/L		96	75 - 120
Methyl acetate	50.0	45.9		ug/L		92	58 - 131
Methyl tert-butyl ether	10.0	8.94		ug/L		89	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.1		ug/L		121	74 - 151
1,2,4-Trichlorobenzene	10.0	8.40		ug/L		84	48 - 135
1,2-Dichlorobenzene	10.0	8.97		ug/L		90	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-179681/5
Matrix: Water
Analysis Batch: 179681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,3-Dichlorobenzene			10.0	9.18		ug/L		92	80 - 120		
1,4-Dichlorobenzene			10.0	8.85		ug/L		88	80 - 120		
Trichlorofluoromethane			10.0	10.7		ug/L		107	49 - 157		
Chlorodibromomethane			10.0	9.66		ug/L		97	64 - 120		
Methylcyclohexane			10.0	11.1		ug/L		111	56 - 127		
m-Xylene & p-Xylene			10.0	9.66		ug/L		97	80 - 120		
o-Xylene			10.0	9.55		ug/L		95	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*63 - 129*
4-Bromofluorobenzene (Surr)	*91*		*66 - 120*
Toluene-d8 (Surr)	*97*		*74 - 120*
Dibromofluoromethane (Surr)	*85*		*75 - 121*

Lab Sample ID: 240-50057-21 MS
Matrix: Water
Analysis Batch: 179681

Client Sample ID: GW-042915-SM-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone	3300	U	6670	6190		ug/L		93	33 - 145		
Benzene	330	U	3330	3400		ug/L		102	72 - 121		
Dichlorobromomethane	330	U	3330	3210		ug/L		96	67 - 120		
Bromoform	330	U	3330	3020		ug/L		91	32 - 128		
Bromomethane	330	U	3330	2200		ug/L		66	10 - 186		
2-Butanone (MEK)	3300	U	6670	6790		ug/L		102	54 - 129		
Carbon disulfide	330	U	3330	3800		ug/L		114	57 - 147		
Carbon tetrachloride	330	U	3330	3540		ug/L		106	59 - 129		
Chlorobenzene	330	U	3330	3350		ug/L		100	80 - 120		
Chloroethane	330	U	3330	2680		ug/L		80	21 - 165		
Chloroform	330	U	3330	3330		ug/L		100	76 - 120		
Chloromethane	330	U	3330	2840		ug/L		85	33 - 132		
1,1-Dichloroethane	330	U	3330	3350		ug/L		101	79 - 120		
1,2-Dichloroethane	330	U	3330	3410		ug/L		102	68 - 129		
1,1-Dichloroethene	330	U	3330	3470		ug/L		104	74 - 135		
1,2-Dichloropropane	330	U	3330	3640		ug/L		109	78 - 120		
cis-1,3-Dichloropropene	330	U	3330	3500		ug/L		105	51 - 120		
trans-1,3-Dichloropropene	330	U	3330	3740		ug/L		112	46 - 120		
Ethylbenzene	330	U	3330	3320		ug/L		99	75 - 120		
2-Hexanone	3300	U	6670	7580		ug/L		114	47 - 139		
Methylene Chloride	330	U	3330	3690		ug/L		111	63 - 128		
4-Methyl-2-pentanone (MIBK)	3300	U	6670	7720		ug/L		116	56 - 131		
Styrene	330	U	3330	3230		ug/L		97	71 - 120		
1,1,2,2-Tetrachloroethane	330	U	3330	3460		ug/L		104	63 - 122		
Tetrachloroethene	330	U	3330	3590		ug/L		108	70 - 120		
Toluene	330	U	3330	3580		ug/L		107	78 - 120		
Trichloroethene	330	U	3330	3420		ug/L		102	66 - 120		
Vinyl chloride	460		3330	2840		ug/L		72	49 - 130		
Xylenes, Total	670	U	6670	6880		ug/L		103	76 - 120		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-50057-21 MS
Matrix: Water
Analysis Batch: 179681

Client Sample ID: GW-042915-SM-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	330	U	3330	3300		ug/L		99	68 - 121
1,1,2-Trichloroethane	330	U	3330	3570		ug/L		107	75 - 120
Cyclohexane	330	U	3330	3360		ug/L		101	49 - 123
1,2-Dibromo-3-Chloropropane	670	U	3330	3480		ug/L		104	32 - 139
Ethylene Dibromide	330	U	3330	3690		ug/L		111	74 - 120
Dichlorodifluoromethane	330	U	3330	2200		ug/L		66	17 - 128
cis-1,2-Dichloroethene	6400		3330	9840		ug/L		102	70 - 120
trans-1,2-Dichloroethene	120	J	3330	3670		ug/L		106	80 - 120
Isopropylbenzene	330	U	3330	3340		ug/L		100	68 - 120
Methyl acetate	3300	U	16700	17000		ug/L		102	47 - 130
Methyl tert-butyl ether	330	U	3330	3210		ug/L		96	46 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	3330	3710		ug/L		111	70 - 152
1,2,4-Trichlorobenzene	330	U	3330	2960		ug/L		89	38 - 138
1,2-Dichlorobenzene	330	U	3330	3330		ug/L		100	75 - 120
1,3-Dichlorobenzene	330	U	3330	3250		ug/L		97	73 - 120
1,4-Dichlorobenzene	330	U	3330	3150		ug/L		95	75 - 120
Trichlorofluoromethane	330	U	3330	3180		ug/L		95	46 - 157
Chlorodibromomethane	330	U	3330	3530		ug/L		106	56 - 120
Methylcyclohexane	330	U	3330	3330		ug/L		100	49 - 127
m-Xylene & p-Xylene	670	U	3330	3450		ug/L		103	75 - 120
o-Xylene	330	U	3330	3430		ug/L		103	76 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 129*
4-Bromofluorobenzene (Surr)	*89*		*66 - 120*
Toluene-d8 (Surr)	*98*		*74 - 120*
Dibromofluoromethane (Surr)	*88*		*75 - 121*

Lab Sample ID: 240-50057-21 MSD
Matrix: Water
Analysis Batch: 179681

Client Sample ID: GW-042915-SM-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	3300	U	6670	4920		ug/L		74	33 - 145	23	30
Benzene	330	U	3330	3130		ug/L		94	72 - 121	8	30
Dichlorobromomethane	330	U	3330	3020		ug/L		91	67 - 120	6	30
Bromoform	330	U	3330	2800		ug/L		84	32 - 128	7	30
Bromomethane	330	U	3330	2190		ug/L		66	10 - 186	0	30
2-Butanone (MEK)	3300	U	6670	6060		ug/L		91	54 - 129	11	30
Carbon disulfide	330	U	3330	3680		ug/L		110	57 - 147	3	30
Carbon tetrachloride	330	U	3330	3520		ug/L		106	59 - 129	0	30
Chlorobenzene	330	U	3330	3090		ug/L		93	80 - 120	8	30
Chloroethane	330	U	3330	2520		ug/L		76	21 - 165	6	30
Chloroform	330	U	3330	3050		ug/L		92	76 - 120	9	30
Chloromethane	330	U	3330	2740		ug/L		82	33 - 132	4	30
1,1-Dichloroethane	330	U	3330	3200		ug/L		96	79 - 120	5	30
1,2-Dichloroethane	330	U	3330	3080		ug/L		92	68 - 129	10	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-50057-21 MSD
Matrix: Water
Analysis Batch: 179681

Client Sample ID: GW-042915-SM-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	330	U	3330	3640		ug/L		109	74 - 135	5	30
1,2-Dichloropropane	330	U	3330	3210		ug/L		96	78 - 120	13	30
cis-1,3-Dichloropropene	330	U	3330	3270		ug/L		98	51 - 120	7	30
trans-1,3-Dichloropropene	330	U	3330	3520		ug/L		106	46 - 120	6	30
Ethylbenzene	330	U	3330	3130		ug/L		94	75 - 120	6	30
2-Hexanone	3300	U	6670	6920		ug/L		104	47 - 139	9	30
Methylene Chloride	330	U	3330	3270		ug/L		98	63 - 128	12	30
4-Methyl-2-pentanone (MIBK)	3300	U	6670	6880		ug/L		103	56 - 131	11	30
Styrene	330	U	3330	2890		ug/L		87	71 - 120	11	30
1,1,2,2-Tetrachloroethane	330	U	3330	3220		ug/L		97	63 - 122	7	30
Tetrachloroethene	330	U	3330	3220		ug/L		97	70 - 120	11	30
Toluene	330	U	3330	3320		ug/L		100	78 - 120	8	30
Trichloroethene	330	U	3330	3190		ug/L		96	66 - 120	7	30
Vinyl chloride	460		3330	3010		ug/L		76	49 - 130	6	30
Xylenes, Total	670	U	6670	6300		ug/L		95	76 - 120	9	30
1,1,1-Trichloroethane	330	U	3330	3180		ug/L		95	68 - 121	4	30
1,1,2-Trichloroethane	330	U	3330	3240		ug/L		97	75 - 120	10	30
Cyclohexane	330	U	3330	3680		ug/L		110	49 - 123	9	30
1,2-Dibromo-3-Chloropropane	670	U	3330	3020		ug/L		90	32 - 139	14	30
Ethylene Dibromide	330	U	3330	3380		ug/L		102	74 - 120	9	30
Dichlorodifluoromethane	330	U	3330	2640		ug/L		79	17 - 128	18	30
cis-1,2-Dichloroethene	6400		3330	9280		ug/L		85	70 - 120	6	30
trans-1,2-Dichloroethene	120	J	3330	3410		ug/L		99	80 - 120	7	30
Isopropylbenzene	330	U	3330	3170		ug/L		95	68 - 120	5	30
Methyl acetate	3300	U	16700	15400		ug/L		93	47 - 130	10	30
Methyl tert-butyl ether	330	U	3330	2880		ug/L		87	46 - 144	11	30
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	3330	4030		ug/L		121	70 - 152	8	30
1,2,4-Trichlorobenzene	330	U	3330	2850		ug/L		86	38 - 138	4	30
1,2-Dichlorobenzene	330	U	3330	2990		ug/L		90	75 - 120	11	30
1,3-Dichlorobenzene	330	U	3330	3060		ug/L		92	73 - 120	6	30
1,4-Dichlorobenzene	330	U	3330	2970		ug/L		89	75 - 120	6	30
Trichlorofluoromethane	330	U	3330	3520		ug/L		106	46 - 157	10	30
Chlorodibromomethane	330	U	3330	3200		ug/L		96	56 - 120	10	30
Methylcyclohexane	330	U	3330	3710		ug/L		111	49 - 127	11	30
m-Xylene & p-Xylene	670	U	3330	3180		ug/L		96	75 - 120	8	30
o-Xylene	330	U	3330	3120		ug/L		94	76 - 120	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*63 - 129*
4-Bromofluorobenzene (Surr)	*90*		*66 - 120*
Toluene-d8 (Surr)	*96*		*74 - 120*
Dibromofluoromethane (Surr)	*87*		*75 - 121*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-179760/6
Matrix: Water
Analysis Batch: 179760

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			05/07/15 13:24	1
Benzene	1.0	U	1.0	0.35	ug/L			05/07/15 13:24	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/07/15 13:24	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/07/15 13:24	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/07/15 13:24	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/07/15 13:24	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/07/15 13:24	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/07/15 13:24	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 13:24	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/07/15 13:24	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/07/15 13:24	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/07/15 13:24	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/07/15 13:24	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/07/15 13:24	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/07/15 13:24	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/07/15 13:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/07/15 13:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/07/15 13:24	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/07/15 13:24	1
2-Hexanone	10	U	10	0.48	ug/L			05/07/15 13:24	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/07/15 13:24	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/07/15 13:24	1
Styrene	1.0	U	1.0	0.45	ug/L			05/07/15 13:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/07/15 13:24	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/07/15 13:24	1
Toluene	1.0	U	1.0	0.23	ug/L			05/07/15 13:24	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/07/15 13:24	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/07/15 13:24	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/07/15 13:24	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/07/15 13:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/07/15 13:24	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/07/15 13:24	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/07/15 13:24	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/07/15 13:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/07/15 13:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/07/15 13:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/07/15 13:24	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/07/15 13:24	1
Methyl acetate	10	U	10	2.3	ug/L			05/07/15 13:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/07/15 13:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/07/15 13:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/07/15 13:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/07/15 13:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/07/15 13:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/07/15 13:24	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/07/15 13:24	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/07/15 13:24	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/07/15 13:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 129		05/07/15 13:24	1
4-Bromofluorobenzene (Surr)	92		66 - 120		05/07/15 13:24	1
Toluene-d8 (Surr)	95		74 - 120		05/07/15 13:24	1
Dibromofluoromethane (Surr)	97		75 - 121		05/07/15 13:24	1

Lab Sample ID: LCS 240-179760/4
Matrix: Water
Analysis Batch: 179760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	15.8		ug/L		79	43 - 136
Benzene	10.0	9.97		ug/L		100	80 - 120
Dichlorobromomethane	10.0	9.71		ug/L		97	72 - 121
Bromoform	10.0	8.10		ug/L		81	40 - 131
Bromomethane	10.0	7.44		ug/L		74	11 - 185
2-Butanone (MEK)	20.0	18.6		ug/L		93	60 - 126
Carbon disulfide	10.0	10.7		ug/L		107	62 - 142
Carbon tetrachloride	10.0	11.5		ug/L		115	66 - 128
Chlorobenzene	10.0	9.84		ug/L		98	80 - 120
Chloroethane	10.0	6.87		ug/L		69	25 - 153
Chloroform	10.0	10.3		ug/L		103	79 - 120
Chloromethane	10.0	9.27		ug/L		93	44 - 126
1,1-Dichloroethane	10.0	10.6		ug/L		106	80 - 120
1,2-Dichloroethane	10.0	10.8		ug/L		108	71 - 127
1,1-Dichloroethene	10.0	10.5		ug/L		105	78 - 131
1,2-Dichloropropane	10.0	9.64		ug/L		96	80 - 120
cis-1,3-Dichloropropene	10.0	9.89		ug/L		99	61 - 120
trans-1,3-Dichloropropene	10.0	9.90		ug/L		99	58 - 120
Ethylbenzene	10.0	10.2		ug/L		102	80 - 120
2-Hexanone	20.0	18.1		ug/L		91	55 - 133
Methylene Chloride	10.0	10.4		ug/L		104	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	18.0		ug/L		90	63 - 128
Styrene	10.0	10.3		ug/L		103	79 - 120
1,1,2,2-Tetrachloroethane	10.0	8.79		ug/L		88	68 - 120
Tetrachloroethene	10.0	10.4		ug/L		104	79 - 120
Toluene	10.0	10.2		ug/L		102	80 - 120
Trichloroethene	10.0	10.5		ug/L		105	76 - 120
Vinyl chloride	10.0	8.86		ug/L		89	53 - 127
Xylenes, Total	20.0	20.2		ug/L		101	80 - 120
1,1,1-Trichloroethane	10.0	11.1		ug/L		111	74 - 120
1,1,2-Trichloroethane	10.0	9.29		ug/L		93	80 - 120
Cyclohexane	10.0	10.4		ug/L		104	54 - 121
1,2-Dibromo-3-Chloropropane	10.0	8.60		ug/L		86	42 - 136
Ethylene Dibromide	10.0	9.62		ug/L		96	79 - 120
Dichlorodifluoromethane	10.0	9.65		ug/L		97	19 - 129
cis-1,2-Dichloroethene	10.0	10.0		ug/L		100	80 - 120
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	80 - 120
Isopropylbenzene	10.0	10.1		ug/L		101	75 - 120
Methyl acetate	50.0	43.6		ug/L		87	58 - 131
Methyl tert-butyl ether	10.0	9.78		ug/L		98	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.2		ug/L		112	74 - 151
1,2,4-Trichlorobenzene	10.0	9.43		ug/L		94	48 - 135
1,2-Dichlorobenzene	10.0	10.0		ug/L		100	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-179760/4
Matrix: Water
Analysis Batch: 179760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	10.0	9.99		ug/L		100	80 - 120
1,4-Dichlorobenzene	10.0	10.0		ug/L		100	80 - 120
Trichlorofluoromethane	10.0	10.5		ug/L		105	49 - 157
Chlorodibromomethane	10.0	9.25		ug/L		93	64 - 120
Methylcyclohexane	10.0	10.1		ug/L		101	56 - 127
m-Xylene & p-Xylene	10.0	10.0		ug/L		100	80 - 120
o-Xylene	10.0	10.2		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 129*
4-Bromofluorobenzene (Surr)	*96*		*66 - 120*
Toluene-d8 (Surr)	*99*		*74 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 121*

Lab Sample ID: 240-50057-16 MS
Matrix: Water
Analysis Batch: 179760

Client Sample ID: GW-042815-SM-014
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	3300	U	6670	4530		ug/L		68	33 - 145
Benzene	330	U	3330	3330		ug/L		100	72 - 121
Dichlorobromomethane	330	U	3330	3220		ug/L		96	67 - 120
Bromoform	330	U	3330	2620		ug/L		79	32 - 128
Bromomethane	330	U	3330	2610		ug/L		78	10 - 186
2-Butanone (MEK)	3300	U	6670	5620		ug/L		84	54 - 129
Carbon disulfide	330	U	3330	3450		ug/L		104	57 - 147
Carbon tetrachloride	330	U	3330	3770		ug/L		113	59 - 129
Chlorobenzene	330	U	3330	3290		ug/L		99	80 - 120
Chloroethane	330	U	3330	2320		ug/L		70	21 - 165
Chloroform	330	U	3330	3390		ug/L		102	76 - 120
Chloromethane	330	U	3330	3000		ug/L		90	33 - 132
1,1-Dichloroethane	280	J	3330	3760		ug/L		104	79 - 120
1,2-Dichloroethane	330	U	3330	3510		ug/L		105	68 - 129
1,1-Dichloroethene	330	U	3330	3530		ug/L		106	74 - 135
1,2-Dichloropropane	330	U	3330	3290		ug/L		99	78 - 120
cis-1,3-Dichloropropene	330	U	3330	3170		ug/L		95	51 - 120
trans-1,3-Dichloropropene	330	U	3330	3280		ug/L		98	46 - 120
Ethylbenzene	330	U	3330	3350		ug/L		100	75 - 120
2-Hexanone	3300	U	6670	5520		ug/L		83	47 - 139
Methylene Chloride	330	U	3330	3420		ug/L		102	63 - 128
4-Methyl-2-pentanone (MIBK)	3300	U	6670	5760		ug/L		86	56 - 131
Styrene	330	U	3330	3410		ug/L		102	71 - 120
1,1,2,2-Tetrachloroethane	330	U	3330	2850		ug/L		85	63 - 122
Tetrachloroethene	330	U	3330	3390		ug/L		102	70 - 120
Toluene	330	U	3330	3370		ug/L		101	78 - 120
Trichloroethene	320	J	3330	3750		ug/L		103	66 - 120
Vinyl chloride	430		3330	3290		ug/L		86	49 - 130
Xylenes, Total	670	U	6670	6730		ug/L		101	76 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-50057-16 MS
Matrix: Water
Analysis Batch: 179760

Client Sample ID: GW-042815-SM-014
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	330	U	3330	3670		ug/L		110	68 - 121
1,1,2-Trichloroethane	330	U	3330	3060		ug/L		92	75 - 120
Cyclohexane	330	U	3330	3520		ug/L		106	49 - 123
1,2-Dibromo-3-Chloropropane	670	U	3330	2520		ug/L		76	32 - 139
Ethylene Dibromide	330	U	3330	3100		ug/L		93	74 - 120
Dichlorodifluoromethane	330	U	3330	2980		ug/L		90	17 - 128
cis-1,2-Dichloroethene	7500	F1	3330	11600	F1	ug/L		125	70 - 120
trans-1,2-Dichloroethene	150	J	3330	3570		ug/L		103	80 - 120
Isopropylbenzene	330	U	3330	3300		ug/L		99	68 - 120
Methyl acetate	3300	U	16700	13700		ug/L		82	47 - 130
Methyl tert-butyl ether	330	U	3330	3180		ug/L		95	46 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	3330	3520		ug/L		106	70 - 152
1,2,4-Trichlorobenzene	330	U	3330	2990		ug/L		90	38 - 138
1,2-Dichlorobenzene	330	U	3330	3260		ug/L		98	75 - 120
1,3-Dichlorobenzene	330	U	3330	3250		ug/L		97	73 - 120
1,4-Dichlorobenzene	330	U	3330	3240		ug/L		97	75 - 120
Trichlorofluoromethane	330	U	3330	3500		ug/L		105	46 - 157
Chlorodibromomethane	330	U	3330	3050		ug/L		92	56 - 120
Methylcyclohexane	330	U	3330	3250		ug/L		98	49 - 127
m-Xylene & p-Xylene	670	U	3330	3300		ug/L		99	75 - 120
o-Xylene	330	U	3330	3430		ug/L		103	76 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 129*
4-Bromofluorobenzene (Surr)	*97*		*66 - 120*
Toluene-d8 (Surr)	*98*		*74 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 121*

Lab Sample ID: 240-50057-16 MSD
Matrix: Water
Analysis Batch: 179760

Client Sample ID: GW-042815-SM-014
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	3300	U	6670	4480		ug/L		67	33 - 145	1	30
Benzene	330	U	3330	3130		ug/L		94	72 - 121	6	30
Dichlorobromomethane	330	U	3330	2950		ug/L		88	67 - 120	9	30
Bromoform	330	U	3330	2560		ug/L		77	32 - 128	2	30
Bromomethane	330	U	3330	2800		ug/L		84	10 - 186	7	30
2-Butanone (MEK)	3300	U	6670	5360		ug/L		80	54 - 129	5	30
Carbon disulfide	330	U	3330	3350		ug/L		101	57 - 147	3	30
Carbon tetrachloride	330	U	3330	3640		ug/L		109	59 - 129	4	30
Chlorobenzene	330	U	3330	3050		ug/L		91	80 - 120	8	30
Chloroethane	330	U	3330	2400		ug/L		72	21 - 165	3	30
Chloroform	330	U	3330	3250		ug/L		97	76 - 120	4	30
Chloromethane	330	U	3330	2890		ug/L		87	33 - 132	4	30
1,1-Dichloroethane	280	J	3330	3580		ug/L		99	79 - 120	5	30
1,2-Dichloroethane	330	U	3330	3340		ug/L		100	68 - 129	5	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-50057-16 MSD
Matrix: Water
Analysis Batch: 179760

Client Sample ID: GW-042815-SM-014
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	330	U	3330	3470		ug/L		104	74 - 135	2	30
1,2-Dichloropropane	330	U	3330	3040		ug/L		91	78 - 120	8	30
cis-1,3-Dichloropropene	330	U	3330	3020		ug/L		91	51 - 120	5	30
trans-1,3-Dichloropropene	330	U	3330	3130		ug/L		94	46 - 120	4	30
Ethylbenzene	330	U	3330	3060		ug/L		92	75 - 120	9	30
2-Hexanone	3300	U	6670	5430		ug/L		81	47 - 139	2	30
Methylene Chloride	330	U	3330	3290		ug/L		99	63 - 128	4	30
4-Methyl-2-pentanone (MIBK)	3300	U	6670	5740		ug/L		86	56 - 131	0	30
Styrene	330	U	3330	3120		ug/L		94	71 - 120	9	30
1,1,2,2-Tetrachloroethane	330	U	3330	2770		ug/L		83	63 - 122	3	30
Tetrachloroethene	330	U	3330	3220		ug/L		97	70 - 120	5	30
Toluene	330	U	3330	3130		ug/L		94	78 - 120	8	30
Trichloroethene	320	J	3330	3670		ug/L		101	66 - 120	2	30
Vinyl chloride	430		3330	3190		ug/L		83	49 - 130	3	30
Xylenes, Total	670	U	6670	6230		ug/L		93	76 - 120	8	30
1,1,1-Trichloroethane	330	U	3330	3530		ug/L		106	68 - 121	4	30
1,1,2-Trichloroethane	330	U	3330	3010		ug/L		90	75 - 120	1	30
Cyclohexane	330	U	3330	3670		ug/L		110	49 - 123	4	30
1,2-Dibromo-3-Chloropropane	670	U	3330	2630		ug/L		79	32 - 139	4	30
Ethylene Dibromide	330	U	3330	2930		ug/L		88	74 - 120	5	30
Dichlorodifluoromethane	330	U	3330	3200		ug/L		96	17 - 128	7	30
cis-1,2-Dichloroethene	7500	F1	3330	10800		ug/L		101	70 - 120	7	30
trans-1,2-Dichloroethene	150	J	3330	3410		ug/L		98	80 - 120	5	30
Isopropylbenzene	330	U	3330	3080		ug/L		92	68 - 120	7	30
Methyl acetate	3300	U	16700	13600		ug/L		82	47 - 130	1	30
Methyl tert-butyl ether	330	U	3330	3100		ug/L		93	46 - 144	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	3330	3760		ug/L		113	70 - 152	7	30
1,2,4-Trichlorobenzene	330	U	3330	2840		ug/L		85	38 - 138	5	30
1,2-Dichlorobenzene	330	U	3330	3000		ug/L		90	75 - 120	8	30
1,3-Dichlorobenzene	330	U	3330	3060		ug/L		92	73 - 120	6	30
1,4-Dichlorobenzene	330	U	3330	3070		ug/L		92	75 - 120	5	30
Trichlorofluoromethane	330	U	3330	3610		ug/L		108	46 - 157	3	30
Chlorodibromomethane	330	U	3330	2850		ug/L		86	56 - 120	7	30
Methylcyclohexane	330	U	3330	3440		ug/L		103	49 - 127	6	30
m-Xylene & p-Xylene	670	U	3330	3110		ug/L		93	75 - 120	6	30
o-Xylene	330	U	3330	3120		ug/L		94	76 - 120	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 129*
4-Bromofluorobenzene (Surr)	*95*		*66 - 120*
Toluene-d8 (Surr)	*97*		*74 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 121*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-180175/6
Matrix: Water
Analysis Batch: 180175

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			05/11/15 13:06	1
Benzene	1.0	U	1.0	0.35	ug/L			05/11/15 13:06	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/11/15 13:06	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/11/15 13:06	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/11/15 13:06	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/11/15 13:06	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/11/15 13:06	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/11/15 13:06	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/11/15 13:06	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/11/15 13:06	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/11/15 13:06	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/11/15 13:06	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/11/15 13:06	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/11/15 13:06	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/11/15 13:06	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/11/15 13:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/11/15 13:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/11/15 13:06	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/11/15 13:06	1
2-Hexanone	10	U	10	0.48	ug/L			05/11/15 13:06	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/11/15 13:06	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/11/15 13:06	1
Styrene	1.0	U	1.0	0.45	ug/L			05/11/15 13:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/11/15 13:06	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/11/15 13:06	1
Toluene	1.0	U	1.0	0.23	ug/L			05/11/15 13:06	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/11/15 13:06	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/11/15 13:06	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/11/15 13:06	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/11/15 13:06	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/11/15 13:06	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/11/15 13:06	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/11/15 13:06	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/11/15 13:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/11/15 13:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/11/15 13:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/11/15 13:06	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/11/15 13:06	1
Methyl acetate	10	U	10	2.3	ug/L			05/11/15 13:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/11/15 13:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/11/15 13:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/11/15 13:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/11/15 13:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/11/15 13:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/11/15 13:06	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/11/15 13:06	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/11/15 13:06	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/11/15 13:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 129		05/11/15 13:06	1
4-Bromofluorobenzene (Surr)	81		66 - 120		05/11/15 13:06	1
Toluene-d8 (Surr)	96		74 - 120		05/11/15 13:06	1
Dibromofluoromethane (Surr)	88		75 - 121		05/11/15 13:06	1

Lab Sample ID: LCS 240-180175/4
Matrix: Water
Analysis Batch: 180175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	18.3		ug/L		92	43 - 136
Benzene	10.0	9.20		ug/L		92	80 - 120
Dichlorobromomethane	10.0	8.87		ug/L		89	72 - 121
Bromoform	10.0	8.64		ug/L		86	40 - 131
Bromomethane	10.0	6.98		ug/L		70	11 - 185
2-Butanone (MEK)	20.0	19.3		ug/L		97	60 - 126
Carbon disulfide	10.0	11.1		ug/L		111	62 - 142
Carbon tetrachloride	10.0	11.0		ug/L		110	66 - 128
Chlorobenzene	10.0	9.19		ug/L		92	80 - 120
Chloroethane	10.0	6.98		ug/L		70	25 - 153
Chloroform	10.0	9.07		ug/L		91	79 - 120
Chloromethane	10.0	7.92		ug/L		79	44 - 126
1,1-Dichloroethane	10.0	9.39		ug/L		94	80 - 120
1,2-Dichloroethane	10.0	9.19		ug/L		92	71 - 127
1,1-Dichloroethene	10.0	10.3		ug/L		103	78 - 131
1,2-Dichloropropane	10.0	9.61		ug/L		96	80 - 120
cis-1,3-Dichloropropene	10.0	9.95		ug/L		100	61 - 120
trans-1,3-Dichloropropene	10.0	11.0		ug/L		110	58 - 120
Ethylbenzene	10.0	9.24		ug/L		92	80 - 120
2-Hexanone	20.0	20.4		ug/L		102	55 - 133
Methylene Chloride	10.0	9.81		ug/L		98	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	21.3		ug/L		107	63 - 128
Styrene	10.0	8.43		ug/L		84	79 - 120
1,1,2,2-Tetrachloroethane	10.0	9.43		ug/L		94	68 - 120
Tetrachloroethene	10.0	9.89		ug/L		99	79 - 120
Toluene	10.0	9.62		ug/L		96	80 - 120
Trichloroethene	10.0	9.65		ug/L		96	76 - 120
Vinyl chloride	10.0	6.88		ug/L		69	53 - 127
Xylenes, Total	20.0	18.5		ug/L		92	80 - 120
1,1,1-Trichloroethane	10.0	9.97		ug/L		100	74 - 120
1,1,2-Trichloroethane	10.0	9.43		ug/L		94	80 - 120
Cyclohexane	10.0	11.2		ug/L		112	54 - 121
1,2-Dibromo-3-Chloropropane	10.0	9.01		ug/L		90	42 - 136
Ethylene Dibromide	10.0	10.1		ug/L		101	79 - 120
Dichlorodifluoromethane	10.0	7.57		ug/L		76	19 - 129
cis-1,2-Dichloroethene	10.0	8.96		ug/L		90	80 - 120
trans-1,2-Dichloroethene	10.0	9.73		ug/L		97	80 - 120
Isopropylbenzene	10.0	9.42		ug/L		94	75 - 120
Methyl acetate	50.0	48.5		ug/L		97	58 - 131
Methyl tert-butyl ether	10.0	9.34		ug/L		93	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.6		ug/L		116	74 - 151
1,2,4-Trichlorobenzene	10.0	9.16		ug/L		92	48 - 135
1,2-Dichlorobenzene	10.0	9.12		ug/L		91	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-180175/4
Matrix: Water
Analysis Batch: 180175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	10.0	8.92		ug/L		89	80 - 120
1,4-Dichlorobenzene	10.0	8.91		ug/L		89	80 - 120
Trichlorofluoromethane	10.0	9.86		ug/L		99	49 - 157
Chlorodibromomethane	10.0	9.62		ug/L		96	64 - 120
Methylcyclohexane	10.0	11.0		ug/L		110	56 - 127
m-Xylene & p-Xylene	10.0	9.23		ug/L		92	80 - 120
o-Xylene	10.0	9.25		ug/L		93	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*63 - 129*
4-Bromofluorobenzene (Surr)	*92*		*66 - 120*
Toluene-d8 (Surr)	*96*		*74 - 120*
Dibromofluoromethane (Surr)	*88*		*75 - 121*

GC/MS VOA

Analysis Batch: 179627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-50057-17	RB-042815-SM-001	Total/NA	Water	8260B	
240-50057-18	RB-042815-SM-002	Total/NA	Water	8260B	
240-50057-24	GW-042915-SM-020	Total/NA	Water	8260B	
240-50057-24 MS	GW-042915-SM-020	Total/NA	Water	8260B	
240-50057-24 MSD	GW-042915-SM-020	Total/NA	Water	8260B	
240-50057-25	RB-042915-SM-003	Total/NA	Water	8260B	
240-50057-26	TB-042915-SM-001	Total/NA	Water	8260B	
LCS 240-179627/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-179627/5	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 179681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-50057-19	GW-042915-SM-015	Total/NA	Water	8260B	
240-50057-20	GW-042915-SM-016	Total/NA	Water	8260B	
240-50057-21	GW-042915-SM-017	Total/NA	Water	8260B	
240-50057-21 MS	GW-042915-SM-017	Total/NA	Water	8260B	
240-50057-21 MSD	GW-042915-SM-017	Total/NA	Water	8260B	
240-50057-22	GW-042915-SM-018	Total/NA	Water	8260B	
240-50057-23	GW-042915-SM-019	Total/NA	Water	8260B	
LCS 240-179681/5	Lab Control Sample	Total/NA	Water	8260B	
MB 240-179681/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 179760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-50057-1	SW-042715-SM-001	Total/NA	Water	8260B	
240-50057-3	GW-042715-SM-001	Total/NA	Water	8260B	
240-50057-4	GW-042715-SM-002	Total/NA	Water	8260B	
240-50057-5	GW-042715-SM-003	Total/NA	Water	8260B	
240-50057-6	GW-042715-SM-004	Total/NA	Water	8260B	
240-50057-7	GW-042815-SM-005	Total/NA	Water	8260B	
240-50057-8	GW-042815-SM-006	Total/NA	Water	8260B	
240-50057-9	GW-042815-SM-007	Total/NA	Water	8260B	
240-50057-10	GW-042815-SM-008	Total/NA	Water	8260B	
240-50057-11	GW-042815-SM-009	Total/NA	Water	8260B	
240-50057-12	GW-042815-SM-010	Total/NA	Water	8260B	
240-50057-13	GW-042815-SM-011	Total/NA	Water	8260B	
240-50057-14	GW-042815-SM-012	Total/NA	Water	8260B	
240-50057-15	GW-042815-SM-013	Total/NA	Water	8260B	
240-50057-16	GW-042815-SM-014	Total/NA	Water	8260B	
240-50057-16 MS	GW-042815-SM-014	Total/NA	Water	8260B	
240-50057-16 MSD	GW-042815-SM-014	Total/NA	Water	8260B	
LCS 240-179760/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-179760/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 180175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-50057-2	SW-042715-SM-002	Total/NA	Water	8260B	
LCS 240-180175/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-180175/6	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-50057-1

Client Sample ID: SW-042715-SM-001
Lab Sample ID: 240-50057-1
Date Collected: 04/27/15 10:06
Matrix: Water
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1.25	179760	05/07/15 17:12	RJQ	TAL CAN

Client Sample ID: SW-042715-SM-002
Lab Sample ID: 240-50057-2
Date Collected: 04/27/15 10:10
Matrix: Water
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		8	180175	05/11/15 14:35	RJQ	TAL CAN

Client Sample ID: GW-042715-SM-001
Lab Sample ID: 240-50057-3
Date Collected: 04/27/15 10:17
Matrix: Water
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		500	179760	05/07/15 17:58	RJQ	TAL CAN

Client Sample ID: GW-042715-SM-002
Lab Sample ID: 240-50057-4
Date Collected: 04/27/15 11:03
Matrix: Water
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		500	179760	05/07/15 18:21	RJQ	TAL CAN

Client Sample ID: GW-042715-SM-003
Lab Sample ID: 240-50057-5
Date Collected: 04/27/15 11:57
Matrix: Water
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		25	179760	05/07/15 18:44	RJQ	TAL CAN

Client Sample ID: GW-042715-SM-004
Lab Sample ID: 240-50057-6
Date Collected: 04/27/15 12:47
Matrix: Water
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5.71	179760	05/07/15 19:06	RJQ	TAL CAN

Client Sample ID: GW-042815-SM-005 — Lab Sample ID: 240-50057-7

Date Collected: 04/28/15 08:17 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		33.33	179760	05/07/15 19:29	RJQ	TAL CAN

Client Sample ID: GW-042815-SM-006 — Lab Sample ID: 240-50057-8

Date Collected: 04/28/15 09:08 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	179760	05/07/15 19:52	RJQ	TAL CAN

Client Sample ID: GW-042815-SM-007 — Lab Sample ID: 240-50057-9

Date Collected: 04/28/15 09:57 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		250	179760	05/07/15 20:15	RJQ	TAL CAN

Client Sample ID: GW-042815-SM-008 — Lab Sample ID: 240-50057-10

Date Collected: 04/28/15 10:00 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		250	179760	05/07/15 20:38	RJQ	TAL CAN

Client Sample ID: GW-042815-SM-009 — Lab Sample ID: 240-50057-11

Date Collected: 04/28/15 10:43 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		500	179760	05/07/15 21:00	RJQ	TAL CAN

Client Sample ID: GW-042815-SM-010 — Lab Sample ID: 240-50057-12

Date Collected: 04/28/15 11:12 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		333.33	179760	05/07/15 21:23	RJQ	TAL CAN

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-50057-1

Client Sample ID: GW-042815-SM-011 — Lab Sample ID: 240-50057-13

Date Collected: 04/28/15 11:47 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		166.67	179760	05/07/15 21:45	RJQ	TAL CAN

Client Sample ID: GW-042815-SM-012 — Lab Sample ID: 240-50057-14

Date Collected: 04/28/15 12:52 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5.71	179760	05/07/15 22:08	RJQ	TAL CAN

Client Sample ID: GW-042815-SM-013 — Lab Sample ID: 240-50057-15

Date Collected: 04/28/15 12:57 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5.71	179760	05/07/15 22:30	RJQ	TAL CAN

Client Sample ID: GW-042815-SM-014 — Lab Sample ID: 240-50057-16

Date Collected: 04/28/15 13:37 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		333.33	179760	05/07/15 13:47	RJQ	TAL CAN

Client Sample ID: RB-042815-SM-001 — Lab Sample ID: 240-50057-17

Date Collected: 04/28/15 08:30 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	179627	05/07/15 01:04	LEE	TAL CAN

Client Sample ID: RB-042815-SM-002 — Lab Sample ID: 240-50057-18

Date Collected: 04/28/15 13:45 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	179627	05/07/15 01:26	LEE	TAL CAN

Client Sample ID: GW-042915-SM-015 — **Lab Sample ID: 240-50057-19**
Date Collected: 04/29/15 08:33 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		25	179681	05/07/15 12:41	RJQ	TAL CAN

Client Sample ID: GW-042915-SM-016 — **Lab Sample ID: 240-50057-20**
Date Collected: 04/29/15 09:17 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	179681	05/07/15 13:04	RJQ	TAL CAN

Client Sample ID: GW-042915-SM-017 — **Lab Sample ID: 240-50057-21**
Date Collected: 04/29/15 09:37 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		333.33	179681	05/07/15 12:18	RJQ	TAL CAN

Client Sample ID: GW-042915-SM-018 — **Lab Sample ID: 240-50057-22**
Date Collected: 04/29/15 10:17 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	179681	05/07/15 13:26	RJQ	TAL CAN

Client Sample ID: GW-042915-SM-019 — **Lab Sample ID: 240-50057-23**
Date Collected: 04/29/15 10:20 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	179681	05/07/15 13:49	RJQ	TAL CAN

Client Sample ID: GW-042915-SM-020 — **Lab Sample ID: 240-50057-24**
Date Collected: 04/29/15 11:17 — **Matrix: Water**
Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	179627	05/07/15 01:48	LEE	TAL CAN

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-50057-1

Client Sample ID: RB-042915-SM-003

Lab Sample ID: 240-50057-25

Date Collected: 04/29/15 10:30

Matrix: Water

Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	179627	05/07/15 02:10	LEE	TAL CAN

Client Sample ID: TB-042915-SM-001

Lab Sample ID: 240-50057-26

Date Collected: 04/29/15 12:00

Matrix: Water

Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	179627	05/07/15 02:32	LEE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-50057-1

Laboratory: TestAmerica Canton

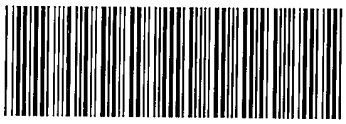
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15 *
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	05-31-15 *
Kentucky (UST)	State Program	4	58	06-30-15 *
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15 *
New York	NELAP	2	10975	03-31-16 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-50057 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

CHAIN OF CUSTODY RECORD

COC NO.: IN- 03728
PAGE 1 OF 2

CONESTOGA-ROVERS & ASSOCIATES
6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302-T07	Laboratory Name: Test America	Lab Location: North Canton	SSOW ID: IN-302-T07
Project Name: MLK	Lab Contact: Denise Hechler	Lab Quote No:	Cooler No:
Project Location: Anderson, IN			Carrier: Fedex
Chemistry Contact: Deborah Andrasko			Airbill No: 626007810883
Sampler(s): Sam Meleconsky			Date Shipped: 4/29/15

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil - VOC)	EnCores 3x5-g-1x25-g	Other:	Total Containers/Sample	VOC									MS/MSD Request	Comments/ Special Instructions:
1	SW-042715-SM-009	04/27/15	1000	SW	G		3							3	X										
2	SW-042715-SM-002		1010	SW	G		3							3	X										
3	GW-042715-SM-001		1017	GW	G		3							3	X										
4	-002		1103				3							3	X										
5	-003		1157				3							3	X										
6	GW-042715-SM-004	04/27/15	1247				3							3	X										
7	GW-042815-SM-005	04/28/15	817				3							3	X										
8	-006		908				3							3	X										
9	-007		957				3							3	X										
10	-008		1000				3							3	X										
11	-009		1043				3							3	X										
12	-010		1112				3							3	X										
13	-011		1147				3							3	X										
14	-012		1252				3							3	X										
15	GW-042815-SM-013	04/28/15	1254	GW	G		3							3	X										

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 84

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	CRA	4/29/15	1500	1.	TA	4/30/15	1030
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

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5/12/2015

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 03730
PAGE 2 OF 2
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302-707	Laboratory Name: Test America	Lab Location: North Canton	SSOW ID: 017302-707
Project Name: MLK	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No:
Project Location: Anderson, In			Carrier: Fedex
Chemistry Contact: Deborah Andrasko			Airbill No: 6296007810883
Sampler(s): Sam Meleasky			Date Shipped: 4/29/15

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil - VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOC	MS/MSD Request	Comments/ Special Instructions:
1	GW-042815-SM-014	04/28/15	1337	WG	G		3							3	X	X	
2	RB-042815-SM-001	04/28/15	830	WQ			3							3	X		
3	RB-042815-SM-002	04/29/15	1345	WQ			3							3	X		
4	GW-042915-SM-015	04/29/15	833	WG			3							3	X		
5	-016		917				3							3	X		
6	-017		937				3							3	X		
7	-018		1017				3							3	X		
8	-019		1020				3							3	X		
9	GW-042915-SM-020	04/29/15	1117	WG			3							3	X		
10	RB-042915-SM-003	04/29/15	1030	WQ			3							3	X		
11	TB-042915-SM-001	04/29/15	1200	WQ	G		3							3	X		
12																	
13																	
14																	
15																	

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 84
All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	CRA	4/29/15	~~1500~~ 1500	1.	TA	4-30-15	10:30
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

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5/12/2015

TestAmerica Canton Sample Receipt Form/Narrative Login # : 50057
Canton Facility

Client CRA Site Name _____ Cooler unpacked by:

Cooler Received on 4-30-15 Opened on 4.30.15

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

~~IR GUN# A (CF +4.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~

IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. 3.7 °C ☐ See Multiple Cooler Form

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~

IR GUN# 8 (CF -1.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the sampler(s) clearly identified on the COC? Yes ~~No~~
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Were sample(s) at the correct pH upon receipt? Yes No ~~NA~~ pH Strip Lot# HC432654
12. Were VOAs on the COC? (Yes) No
13. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # _____ (Yes) No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-53134-1
Client Project/Site: 17302-T07, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
7/20/2015 10:04:08 AM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-53134-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-53134-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 17302-T07, RACER Delphi Anderson

Report Number: 240-53134-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 07/14/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples SW-071015-SM-001 (240-53134-1), SW-071015-SM-002 (240-53134-2), SW-071015-SM-003 (240-53134-3) and TB-071015-SM-001 (240-53134-4) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/16/2015.

Samples SW-071015-SM-001 (240-53134-1)[3.33X], SW-071015-SM-002 (240-53134-2)[3.33X] and SW-071015-SM-003 (240-53134-3) [4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-53134-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-53134-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-53134-1	SW-071015-SM-001	Water	07/10/15 08:15	07/14/15 10:00
240-53134-2	SW-071015-SM-002	Water	07/10/15 08:30	07/14/15 10:00
240-53134-3	SW-071015-SM-003	Water	07/10/15 08:35	07/14/15 10:00
240-53134-4	TB-071015-SM-001	Water	07/10/15 08:45	07/14/15 10:00

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-53134-1

Client Sample ID: SW-071015-SM-001 — Lab Sample ID: 240-53134-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	5.2		3.3	1.0	ug/L	3.33		8260B	Total/NA
cis-1,2-Dichloroethene	93		3.3	0.87	ug/L	3.33		8260B	Total/NA
trans-1,2-Dichloroethene	3.1	J	3.3	1.0	ug/L	3.33		8260B	Total/NA
Vinyl chloride	7.7		3.3	0.97	ug/L	3.33		8260B	Total/NA

Client Sample ID: SW-071015-SM-002 — Lab Sample ID: 240-53134-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	5.4		3.3	1.0	ug/L	3.33		8260B	Total/NA
cis-1,2-Dichloroethene	100		3.3	0.87	ug/L	3.33		8260B	Total/NA
trans-1,2-Dichloroethene	3.4		3.3	1.0	ug/L	3.33		8260B	Total/NA
Vinyl chloride	8.0		3.3	0.97	ug/L	3.33		8260B	Total/NA

Client Sample ID: SW-071015-SM-003 — Lab Sample ID: 240-53134-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	5.8		4.0	1.2	ug/L	4		8260B	Total/NA
cis-1,2-Dichloroethene	110		4.0	1.0	ug/L	4		8260B	Total/NA
trans-1,2-Dichloroethene	3.5	J	4.0	1.2	ug/L	4		8260B	Total/NA
Vinyl chloride	7.9		4.0	1.2	ug/L	4		8260B	Total/NA

Client Sample ID: TB-071015-SM-001 — Lab Sample ID: 240-53134-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.3	J	10	0.94	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SW-071015-SM-001
Date Collected: 07/10/15 08:15
Date Received: 07/14/15 10:00

Lab Sample ID: 240-53134-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3.3	U	3.3	1.5	ug/L			07/16/15 17:06	3.33
1,1,2,2-Tetrachloroethane	3.3	U	3.3	0.73	ug/L			07/16/15 17:06	3.33
1,1,2-Trichloroethane	3.3	U	3.3	0.80	ug/L			07/16/15 17:06	3.33
1,1-Dichloroethane	**5.2**		3.3	1.0	ug/L			07/16/15 17:06	3.33
1,1-Dichloroethene	3.3	U	3.3	1.5	ug/L			07/16/15 17:06	3.33
1,2-Dichloroethane	3.3	U	3.3	0.77	ug/L			07/16/15 17:06	3.33
1,2-Dichloropropane	3.3	U	3.3	0.83	ug/L			07/16/15 17:06	3.33
2-Hexanone	33	U	33	1.6	ug/L			07/16/15 17:06	3.33
Acetone	33	U	33	3.1	ug/L			07/16/15 17:06	3.33
Benzene	3.3	U	3.3	1.2	ug/L			07/16/15 17:06	3.33
Bromoform	3.3	U	3.3	1.9	ug/L			07/16/15 17:06	3.33
Bromomethane	3.3	U	3.3	1.5	ug/L			07/16/15 17:06	3.33
Carbon disulfide	3.3	U	3.3	1.3	ug/L			07/16/15 17:06	3.33
Carbon tetrachloride	3.3	U	3.3	1.4	ug/L			07/16/15 17:06	3.33
Chlorobenzene	3.3	U	3.3	0.83	ug/L			07/16/15 17:06	3.33
Chloroethane	3.3	U	3.3	1.1	ug/L			07/16/15 17:06	3.33
Chloroform	3.3	U	3.3	0.83	ug/L			07/16/15 17:06	3.33
Chloromethane	3.3	U	3.3	1.5	ug/L			07/16/15 17:06	3.33
cis-1,2-Dichloroethene	**93**		3.3	0.87	ug/L			07/16/15 17:06	3.33
cis-1,3-Dichloropropene	3.3	U	3.3	1.5	ug/L			07/16/15 17:06	3.33
Dichlorobromomethane	3.3	U	3.3	0.97	ug/L			07/16/15 17:06	3.33
Ethylbenzene	3.3	U	3.3	0.83	ug/L			07/16/15 17:06	3.33
2-Butanone (MEK)	33	U	33	1.8	ug/L			07/16/15 17:06	3.33
4-Methyl-2-pentanone (MIBK)	33	U	33	3.3	ug/L			07/16/15 17:06	3.33
Methylene Chloride	3.3	U	3.3	1.1	ug/L			07/16/15 17:06	3.33
Styrene	3.3	U	3.3	1.5	ug/L			07/16/15 17:06	3.33
Tetrachloroethene	3.3	U	3.3	1.0	ug/L			07/16/15 17:06	3.33
Toluene	3.3	U	3.3	0.77	ug/L			07/16/15 17:06	3.33
trans-1,2-Dichloroethene	**3.1**	**J**	3.3	1.0	ug/L			07/16/15 17:06	3.33
trans-1,3-Dichloropropene	3.3	U	3.3	1.9	ug/L			07/16/15 17:06	3.33
Trichloroethene	3.3	U	3.3	0.73	ug/L			07/16/15 17:06	3.33
Vinyl chloride	**7.7**		3.3	0.97	ug/L			07/16/15 17:06	3.33
Xylenes, Total	6.7	U	6.7	1.7	ug/L			07/16/15 17:06	3.33
Chlorodibromomethane	3.3	U	3.3	1.4	ug/L			07/16/15 17:06	3.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*78 - 125*		*07/16/15 17:06*	*3.33*
4-Bromofluorobenzene (Surr)	*86*		*61 - 120*		*07/16/15 17:06*	*3.33*
Toluene-d8 (Surr)	*86*		*80 - 120*		*07/16/15 17:06*	*3.33*
Dibromofluoromethane (Surr)	*101*		*79 - 120*		*07/16/15 17:06*	*3.33*

Client Sample ID: SW-071015-SM-002
Date Collected: 07/10/15 08:30
Date Received: 07/14/15 10:00

Lab Sample ID: 240-53134-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3.3	U	3.3	1.5	ug/L			07/16/15 18:19	3.33
1,1,2,2-Tetrachloroethane	3.3	U	3.3	0.73	ug/L			07/16/15 18:19	3.33
1,1,2-Trichloroethane	3.3	U	3.3	0.80	ug/L			07/16/15 18:19	3.33
1,1-Dichloroethane	**5.4**		3.3	1.0	ug/L			07/16/15 18:19	3.33
1,1-Dichloroethene	3.3	U	3.3	1.5	ug/L			07/16/15 18:19	3.33

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SW-071015-SM-002
Date Collected: 07/10/15 08:30
Date Received: 07/14/15 10:00

Lab Sample ID: 240-53134-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	3.3	U	3.3	0.77	ug/L			07/16/15 18:19	3.33
1,2-Dichloropropane	3.3	U	3.3	0.83	ug/L			07/16/15 18:19	3.33
2-Hexanone	33	U	33	1.6	ug/L			07/16/15 18:19	3.33
Acetone	33	U	33	3.1	ug/L			07/16/15 18:19	3.33
Benzene	3.3	U	3.3	1.2	ug/L			07/16/15 18:19	3.33
Bromoform	3.3	U	3.3	1.9	ug/L			07/16/15 18:19	3.33
Bromomethane	3.3	U	3.3	1.5	ug/L			07/16/15 18:19	3.33
Carbon disulfide	3.3	U	3.3	1.3	ug/L			07/16/15 18:19	3.33
Carbon tetrachloride	3.3	U	3.3	1.4	ug/L			07/16/15 18:19	3.33
Chlorobenzene	3.3	U	3.3	0.83	ug/L			07/16/15 18:19	3.33
Chloroethane	3.3	U	3.3	1.1	ug/L			07/16/15 18:19	3.33
Chloroform	3.3	U	3.3	0.83	ug/L			07/16/15 18:19	3.33
Chloromethane	3.3	U	3.3	1.5	ug/L			07/16/15 18:19	3.33
cis-1,2-Dichloroethene	**100**		3.3	0.87	ug/L			07/16/15 18:19	3.33
cis-1,3-Dichloropropene	3.3	U	3.3	1.5	ug/L			07/16/15 18:19	3.33
Dichlorobromomethane	3.3	U	3.3	0.97	ug/L			07/16/15 18:19	3.33
Ethylbenzene	3.3	U	3.3	0.83	ug/L			07/16/15 18:19	3.33
2-Butanone (MEK)	33	U	33	1.8	ug/L			07/16/15 18:19	3.33
4-Methyl-2-pentanone (MIBK)	33	U	33	3.3	ug/L			07/16/15 18:19	3.33
Methylene Chloride	3.3	U	3.3	1.1	ug/L			07/16/15 18:19	3.33
Styrene	3.3	U	3.3	1.5	ug/L			07/16/15 18:19	3.33
Tetrachloroethene	3.3	U	3.3	1.0	ug/L			07/16/15 18:19	3.33
Toluene	3.3	U	3.3	0.77	ug/L			07/16/15 18:19	3.33
trans-1,2-Dichloroethene	**3.4**		3.3	1.0	ug/L			07/16/15 18:19	3.33
trans-1,3-Dichloropropene	3.3	U	3.3	1.9	ug/L			07/16/15 18:19	3.33
Trichloroethene	3.3	U	3.3	0.73	ug/L			07/16/15 18:19	3.33
Vinyl chloride	**8.0**		3.3	0.97	ug/L			07/16/15 18:19	3.33
Xylenes, Total	6.7	U	6.7	1.7	ug/L			07/16/15 18:19	3.33
Chlorodibromomethane	3.3	U	3.3	1.4	ug/L			07/16/15 18:19	3.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*78 - 125*		*07/16/15 18:19*	*3.33*
4-Bromofluorobenzene (Surr)	*84*		*61 - 120*		*07/16/15 18:19*	*3.33*
Toluene-d8 (Surr)	*84*		*80 - 120*		*07/16/15 18:19*	*3.33*
Dibromofluoromethane (Surr)	*99*		*79 - 120*		*07/16/15 18:19*	*3.33*

Client Sample ID: SW-071015-SM-003
Date Collected: 07/10/15 08:35
Date Received: 07/14/15 10:00

Lab Sample ID: 240-53134-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.0	U	4.0	1.8	ug/L			07/16/15 18:42	4
1,1,2,2-Tetrachloroethane	4.0	U	4.0	0.88	ug/L			07/16/15 18:42	4
1,1,2-Trichloroethane	4.0	U	4.0	0.96	ug/L			07/16/15 18:42	4
1,1-Dichloroethane	**5.8**		4.0	1.2	ug/L			07/16/15 18:42	4
1,1-Dichloroethene	4.0	U	4.0	1.8	ug/L			07/16/15 18:42	4
1,2-Dichloroethane	4.0	U	4.0	0.92	ug/L			07/16/15 18:42	4
1,2-Dichloropropane	4.0	U	4.0	1.0	ug/L			07/16/15 18:42	4
2-Hexanone	40	U	40	1.9	ug/L			07/16/15 18:42	4
Acetone	40	U	40	3.8	ug/L			07/16/15 18:42	4
Benzene	4.0	U	4.0	1.4	ug/L			07/16/15 18:42	4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SW-071015-SM-003
Date Collected: 07/10/15 08:35
Date Received: 07/14/15 10:00

Lab Sample ID: 240-53134-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	4.0	U	4.0	2.2	ug/L			07/16/15 18:42	4
Bromomethane	4.0	U	4.0	1.8	ug/L			07/16/15 18:42	4
Carbon disulfide	4.0	U	4.0	1.5	ug/L			07/16/15 18:42	4
Carbon tetrachloride	4.0	U	4.0	1.7	ug/L			07/16/15 18:42	4
Chlorobenzene	4.0	U	4.0	1.0	ug/L			07/16/15 18:42	4
Chloroethane	4.0	U	4.0	1.3	ug/L			07/16/15 18:42	4
Chloroform	4.0	U	4.0	1.0	ug/L			07/16/15 18:42	4
Chloromethane	4.0	U	4.0	1.8	ug/L			07/16/15 18:42	4
cis-1,2-Dichloroethene	**110**		4.0	1.0	ug/L			07/16/15 18:42	4
cis-1,3-Dichloropropene	4.0	U	4.0	1.8	ug/L			07/16/15 18:42	4
Dichlorobromomethane	4.0	U	4.0	1.2	ug/L			07/16/15 18:42	4
Ethylbenzene	4.0	U	4.0	1.0	ug/L			07/16/15 18:42	4
2-Butanone (MEK)	40	U	40	2.1	ug/L			07/16/15 18:42	4
4-Methyl-2-pentanone (MIBK)	40	U	40	4.0	ug/L			07/16/15 18:42	4
Methylene Chloride	4.0	U	4.0	1.3	ug/L			07/16/15 18:42	4
Styrene	4.0	U	4.0	1.8	ug/L			07/16/15 18:42	4
Tetrachloroethene	4.0	U	4.0	1.2	ug/L			07/16/15 18:42	4
Toluene	4.0	U	4.0	0.92	ug/L			07/16/15 18:42	4
trans-1,2-Dichloroethene	**3.5**	**J**	4.0	1.2	ug/L			07/16/15 18:42	4
trans-1,3-Dichloropropene	4.0	U	4.0	2.2	ug/L			07/16/15 18:42	4
Trichloroethene	4.0	U	4.0	0.88	ug/L			07/16/15 18:42	4
Vinyl chloride	**7.9**		4.0	1.2	ug/L			07/16/15 18:42	4
Xylenes, Total	8.0	U	8.0	2.1	ug/L			07/16/15 18:42	4
Chlorodibromomethane	4.0	U	4.0	1.7	ug/L			07/16/15 18:42	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*78 - 125*		*07/16/15 18:42*	*4*
4-Bromofluorobenzene (Surr)	*83*		*61 - 120*		*07/16/15 18:42*	*4*
Toluene-d8 (Surr)	*85*		*80 - 120*		*07/16/15 18:42*	*4*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*07/16/15 18:42*	*4*

Client Sample ID: TB-071015-SM-001
Date Collected: 07/10/15 08:45
Date Received: 07/14/15 10:00

Lab Sample ID: 240-53134-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			07/16/15 19:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			07/16/15 19:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/16/15 19:05	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			07/16/15 19:05	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			07/16/15 19:05	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			07/16/15 19:05	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			07/16/15 19:05	1
2-Hexanone	10	U	10	0.48	ug/L			07/16/15 19:05	1
Acetone	**5.3**	**J**	10	0.94	ug/L			07/16/15 19:05	1
Benzene	1.0	U	1.0	0.35	ug/L			07/16/15 19:05	1
Bromoform	1.0	U	1.0	0.56	ug/L			07/16/15 19:05	1
Bromomethane	1.0	U	1.0	0.44	ug/L			07/16/15 19:05	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			07/16/15 19:05	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			07/16/15 19:05	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			07/16/15 19:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-071015-SM-001
Date Collected: 07/10/15 08:45
Date Received: 07/14/15 10:00

Lab Sample ID: 240-53134-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.32	ug/L			07/16/15 19:05	1
Chloroform	1.0	U	1.0	0.25	ug/L			07/16/15 19:05	1
Chloromethane	1.0	U	1.0	0.44	ug/L			07/16/15 19:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/16/15 19:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			07/16/15 19:05	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			07/16/15 19:05	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			07/16/15 19:05	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			07/16/15 19:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			07/16/15 19:05	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			07/16/15 19:05	1
Styrene	1.0	U	1.0	0.45	ug/L			07/16/15 19:05	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			07/16/15 19:05	1
Toluene	1.0	U	1.0	0.23	ug/L			07/16/15 19:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			07/16/15 19:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			07/16/15 19:05	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			07/16/15 19:05	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			07/16/15 19:05	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			07/16/15 19:05	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			07/16/15 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*78 - 125*		*07/16/15 19:05*	*1*
4-Bromofluorobenzene (Surr)	*80*		*61 - 120*		*07/16/15 19:05*	*1*
Toluene-d8 (Surr)	*82*		*80 - 120*		*07/16/15 19:05*	*1*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*07/16/15 19:05*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-53134-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-125)	(61-120)	(80-120)	(79-120)
240-53134-1	SW-071015-SM-001	105	86	86	101
240-53134-1 MS	SW-071015-SM-001	102	101	93	100
240-53134-1 MSD	SW-071015-SM-001	98	101	92	99
240-53134-2	SW-071015-SM-002	106	84	84	99
240-53134-3	SW-071015-SM-003	110	83	85	104
240-53134-4	TB-071015-SM-001	108	80	82	104
LCS 240-189456/4	Lab Control Sample	94	99	94	93
MB 240-189456/6	Method Blank	106	86	87	107

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-189456/6
Matrix: Water
Analysis Batch: 189456

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			07/16/15 16:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			07/16/15 16:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/16/15 16:43	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			07/16/15 16:43	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			07/16/15 16:43	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			07/16/15 16:43	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			07/16/15 16:43	1
2-Hexanone	10	U	10	0.48	ug/L			07/16/15 16:43	1
Acetone	10	U	10	0.94	ug/L			07/16/15 16:43	1
Benzene	1.0	U	1.0	0.35	ug/L			07/16/15 16:43	1
Bromoform	1.0	U	1.0	0.56	ug/L			07/16/15 16:43	1
Bromomethane	1.0	U	1.0	0.44	ug/L			07/16/15 16:43	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			07/16/15 16:43	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			07/16/15 16:43	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			07/16/15 16:43	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/16/15 16:43	1
Chloroform	1.0	U	1.0	0.25	ug/L			07/16/15 16:43	1
Chloromethane	1.0	U	1.0	0.44	ug/L			07/16/15 16:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/16/15 16:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			07/16/15 16:43	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			07/16/15 16:43	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			07/16/15 16:43	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			07/16/15 16:43	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			07/16/15 16:43	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			07/16/15 16:43	1
Styrene	1.0	U	1.0	0.45	ug/L			07/16/15 16:43	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			07/16/15 16:43	1
Toluene	1.0	U	1.0	0.23	ug/L			07/16/15 16:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			07/16/15 16:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			07/16/15 16:43	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			07/16/15 16:43	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			07/16/15 16:43	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			07/16/15 16:43	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			07/16/15 16:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*78 - 125*		*07/16/15 16:43*	*1*
4-Bromofluorobenzene (Surr)	*86*		*61 - 120*		*07/16/15 16:43*	*1*
Toluene-d8 (Surr)	*87*		*80 - 120*		*07/16/15 16:43*	*1*
Dibromofluoromethane (Surr)	*107*		*79 - 120*		*07/16/15 16:43*	*1*

Lab Sample ID: LCS 240-189456/4
Matrix: Water
Analysis Batch: 189456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			10.0	11.3		ug/L		113	77 - 123		
1,1,2,2-Tetrachloroethane			10.0	8.41		ug/L		84	71 - 123		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-189456/4
Matrix: Water
Analysis Batch: 189456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	10.0	9.28		ug/L		93	80 - 120
1,1-Dichloroethane	10.0	9.65		ug/L		96	79 - 125
1,1-Dichloroethene	10.0	8.28		ug/L		83	76 - 124
1,2-Dichloroethane	10.0	10.1		ug/L		101	80 - 120
1,2-Dichloropropane	10.0	9.32		ug/L		93	78 - 124
2-Hexanone	20.0	18.9		ug/L		95	55 - 141
Acetone	20.0	21.2		ug/L		106	34 - 148
Benzene	10.0	9.28		ug/L		93	80 - 120
Bromoform	10.0	9.42		ug/L		94	56 - 122
Bromomethane	10.0	12.7		ug/L		127	38 - 132
Carbon disulfide	10.0	8.54		ug/L		85	65 - 144
Carbon tetrachloride	10.0	11.2		ug/L		112	77 - 131
Chlorobenzene	10.0	9.32		ug/L		93	80 - 120
Chloroethane	10.0	11.7		ug/L		117	36 - 126
Chloroform	10.0	10.0		ug/L		100	80 - 120
Chloromethane	10.0	8.16		ug/L		82	48 - 133
cis-1,2-Dichloroethene	10.0	9.52		ug/L		95	79 - 120
cis-1,3-Dichloropropene	10.0	10.1		ug/L		101	74 - 126
Dichlorobromomethane	10.0	9.78		ug/L		98	80 - 120
Ethylbenzene	10.0	10.2		ug/L		102	80 - 120
m-Xylene & p-Xylene	10.0	10.4		ug/L		104	80 - 120
2-Butanone (MEK)	20.0	19.5		ug/L		98	56 - 138
4-Methyl-2-pentanone (MIBK)	20.0	18.8		ug/L		94	64 - 135
Methylene Chloride	10.0	9.79		ug/L		98	77 - 129
o-Xylene	10.0	9.90		ug/L		99	80 - 120
Styrene	10.0	9.91		ug/L		99	76 - 122
Tetrachloroethene	10.0	9.52		ug/L		95	78 - 121
Toluene	10.0	9.76		ug/L		98	80 - 120
trans-1,2-Dichloroethene	10.0	9.70		ug/L		97	80 - 124
trans-1,3-Dichloropropene	10.0	10.9		ug/L		109	75 - 131
Trichloroethene	10.0	9.75		ug/L		97	80 - 121
Vinyl chloride	10.0	8.77		ug/L		88	52 - 121
Xylenes, Total	20.0	20.3		ug/L		102	80 - 120
Chlorodibromomethane	10.0	9.95		ug/L		100	74 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*78 - 125*
4-Bromofluorobenzene (Surr)	*99*		*61 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*79 - 120*

Lab Sample ID: 240-53134-1 MS
Matrix: Water
Analysis Batch: 189456

Client Sample ID: SW-071015-SM-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	3.3	U	33.3	38.5		ug/L		116	69 - 122
1,1,2,2-Tetrachloroethane	3.3	U	33.3	27.6		ug/L		83	61 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-53134-1 MS
Matrix: Water
Analysis Batch: 189456

Client Sample ID: SW-071015-SM-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	3.3	U	33.3	31.5		ug/L		95	72 - 125
1,1-Dichloroethane	5.2		33.3	37.9		ug/L		98	73 - 124
1,1-Dichloroethene	3.3	U	33.3	27.8		ug/L		83	67 - 124
1,2-Dichloroethane	3.3	U	33.3	37.4		ug/L		112	74 - 125
1,2-Dichloropropane	3.3	U	33.3	31.3		ug/L		94	73 - 122
2-Hexanone	33	U	66.6	60.8		ug/L		91	49 - 142
Acetone	33	U	66.6	71.5		ug/L		107	32 - 126
Benzene	3.3	U	33.3	31.0		ug/L		93	73 - 121
Bromoform	3.3	U	33.3	31.5		ug/L		95	45 - 121
Bromomethane	3.3	U	33.3	45.1		ug/L		136	26 - 136
Carbon disulfide	3.3	U	33.3	28.2		ug/L		85	54 - 144
Carbon tetrachloride	3.3	U	33.3	38.3		ug/L		115	65 - 129
Chlorobenzene	3.3	U	33.3	31.5		ug/L		95	72 - 120
Chloroethane	3.3	U	33.3	40.4		ug/L		121	27 - 131
Chloroform	3.3	U	33.3	34.6		ug/L		104	73 - 121
Chloromethane	3.3	U	33.3	29.0		ug/L		87	39 - 134
cis-1,2-Dichloroethene	93		33.3	118		ug/L		75	66 - 124
cis-1,3-Dichloropropene	3.3	U	33.3	30.1		ug/L		90	60 - 120
Dichlorobromomethane	3.3	U	33.3	34.7		ug/L		104	72 - 120
Ethylbenzene	3.3	U	33.3	32.0		ug/L		96	68 - 121
m-Xylene & p-Xylene	6.7	U	33.3	34.0		ug/L		102	66 - 123
2-Butanone (MEK)	33	U	66.6	64.0		ug/L		96	49 - 132
4-Methyl-2-pentanone (MIBK)	33	U	66.6	62.9		ug/L		94	58 - 136
Methylene Chloride	3.3	U	33.3	33.6		ug/L		101	70 - 124
o-Xylene	3.3	U	33.3	31.8		ug/L		96	68 - 121
Styrene	3.3	U	33.3	32.9		ug/L		99	64 - 126
Tetrachloroethene	3.3	U	33.3	31.5		ug/L		95	59 - 125
Toluene	3.3	U	33.3	31.8		ug/L		95	72 - 122
trans-1,2-Dichloroethene	3.1	J	33.3	35.5		ug/L		97	72 - 125
trans-1,3-Dichloropropene	3.3	U	33.3	35.6		ug/L		107	58 - 132
Trichloroethene	3.3	U	33.3	33.2		ug/L		100	61 - 129
Vinyl chloride	7.7		33.3	38.2		ug/L		91	44 - 122
Xylenes, Total	6.7	U	66.6	65.8		ug/L		99	67 - 122
Chlorodibromomethane	3.3	U	33.3	33.8		ug/L		102	62 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*78 - 125*
4-Bromofluorobenzene (Surr)	*101*		*61 - 120*
Toluene-d8 (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*79 - 120*

Lab Sample ID: 240-53134-1 MSD
Matrix: Water
Analysis Batch: 189456

Client Sample ID: SW-071015-SM-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	3.3	U	33.3	40.1		ug/L		120	69 - 122	4	14
1,1,2,2-Tetrachloroethane	3.3	U	33.3	28.3		ug/L		85	61 - 130	3	18

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-53134-1 MSD
Matrix: Water
Analysis Batch: 189456

Client Sample ID: SW-071015-SM-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	3.3	U	33.3	32.5		ug/L		98	72 - 125	3	19
1,1-Dichloroethane	5.2		33.3	38.1		ug/L		99	73 - 124	1	14
1,1-Dichloroethene	3.3	U	33.3	28.7		ug/L		86	67 - 124	3	24
1,2-Dichloroethane	3.3	U	33.3	36.9		ug/L		111	74 - 125	1	24
1,2-Dichloropropane	3.3	U	33.3	32.0		ug/L		96	73 - 122	2	15
2-Hexanone	33	U	66.6	64.0		ug/L		96	49 - 142	5	27
Acetone	33	U	66.6	69.5		ug/L		104	32 - 126	3	28
Benzene	3.3	U	33.3	31.5		ug/L		95	73 - 121	2	13
Bromoform	3.3	U	33.3	32.0		ug/L		96	45 - 121	1	19
Bromomethane	3.3	U	33.3	43.9		ug/L		132	26 - 136	3	35
Carbon disulfide	3.3	U	33.3	29.0		ug/L		87	54 - 144	3	34
Carbon tetrachloride	3.3	U	33.3	38.9		ug/L		117	65 - 129	2	20
Chlorobenzene	3.3	U	33.3	31.4		ug/L		94	72 - 120	0	15
Chloroethane	3.3	U	33.3	40.7		ug/L		122	27 - 131	1	35
Chloroform	3.3	U	33.3	35.1		ug/L		105	73 - 121	1	17
Chloromethane	3.3	U	33.3	29.6		ug/L		89	39 - 134	2	20
cis-1,2-Dichloroethene	93		33.3	118		ug/L		76	66 - 124	0	22
cis-1,3-Dichloropropene	3.3	U	33.3	31.7		ug/L		95	60 - 120	5	21
Dichlorobromomethane	3.3	U	33.3	34.4		ug/L		103	72 - 120	1	19
Ethylbenzene	3.3	U	33.3	31.8		ug/L		96	68 - 121	1	16
m-Xylene & p-Xylene	6.7	U	33.3	34.9		ug/L		105	66 - 123	2	15
2-Butanone (MEK)	33	U	66.6	60.9		ug/L		91	49 - 132	5	19
4-Methyl-2-pentanone (MIBK)	33	U	66.6	62.1		ug/L		93	58 - 136	1	32
Methylene Chloride	3.3	U	33.3	33.5		ug/L		101	70 - 124	0	14
o-Xylene	3.3	U	33.3	32.6		ug/L		98	68 - 121	2	14
Styrene	3.3	U	33.3	33.5		ug/L		100	64 - 126	2	15
Tetrachloroethene	3.3	U	33.3	30.6		ug/L		92	59 - 125	3	20
Toluene	3.3	U	33.3	32.3		ug/L		97	72 - 122	2	15
trans-1,2-Dichloroethene	3.1	J	33.3	35.2		ug/L		96	72 - 125	1	25
trans-1,3-Dichloropropene	3.3	U	33.3	35.7		ug/L		107	58 - 132	0	22
Trichloroethene	3.3	U	33.3	32.6		ug/L		98	61 - 129	2	14
Vinyl chloride	7.7		33.3	39.0		ug/L		94	44 - 122	2	35
Xylenes, Total	6.7	U	66.6	67.5		ug/L		101	67 - 122	3	14
Chlorodibromomethane	3.3	U	33.3	33.6		ug/L		101	62 - 122	1	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*78 - 125*
4-Bromofluorobenzene (Surr)	*101*		*61 - 120*
Toluene-d8 (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*79 - 120*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-53134-1

GC/MS VOA

Analysis Batch: 189456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-53134-1	SW-071015-SM-001	Total/NA	Water	8260B	
240-53134-1 MS	SW-071015-SM-001	Total/NA	Water	8260B	
240-53134-1 MSD	SW-071015-SM-001	Total/NA	Water	8260B	
240-53134-2	SW-071015-SM-002	Total/NA	Water	8260B	
240-53134-3	SW-071015-SM-003	Total/NA	Water	8260B	
240-53134-4	TB-071015-SM-001	Total/NA	Water	8260B	
LCS 240-189456/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-189456/6	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-53134-1

Client Sample ID: SW-071015-SM-001
Lab Sample ID: 240-53134-1
Date Collected: 07/10/15 08:15
Matrix: Water
Date Received: 07/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		3.33	189456	07/16/15 17:06	LRW	TAL CAN

Client Sample ID: SW-071015-SM-002
Lab Sample ID: 240-53134-2
Date Collected: 07/10/15 08:30
Matrix: Water
Date Received: 07/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		3.33	189456	07/16/15 18:19	LRW	TAL CAN

Client Sample ID: SW-071015-SM-003
Lab Sample ID: 240-53134-3
Date Collected: 07/10/15 08:35
Matrix: Water
Date Received: 07/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	189456	07/16/15 18:42	LRW	TAL CAN

Client Sample ID: TB-071015-SM-001
Lab Sample ID: 240-53134-4
Date Collected: 07/10/15 08:45
Matrix: Water
Date Received: 07/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	189456	07/16/15 19:05	LRW	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-53134-1

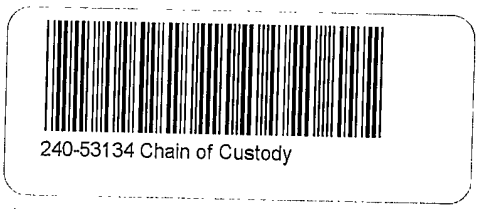
Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15 *
Kansas	NELAP	7	E-10336	05-31-15 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15 *
New Jersey	NELAP	2	OH001	09-30-15 *
New York	NELAP	2	10975	03-31-16 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15 *
Texas	NELAP	6		08-31-15 *
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15 *

* Certification renewal pending - certification considered valid.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



4101 Shuffel Street, N.W. North Canton, OH 44720 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

2.6|C 3.5

CHAIN OF CUSTODY RECORD

COC NO.: IN- 03965

PAGE 1 OF 1

(See Reverse Side for Instructions)

CONESTOGA-ROVERS & ASSOCIATES

6520 Corporate Drive, Indianapolis, Indiana 46278

Phone: (317) 291-7007 Fax: (317) 328-2666

Project No/ Phase/Task Code: 017302-T07	**Laboratory Name:** Test America	**Lab Location:** North Canton	**SSOW ID:**
Project Name: Delphi 1	**Lab Contact:** Denise Heckler	**Lab Quote No:**	**Cooler No:**
Project Location: Anderson Ind			**Carrier:** Fedex
Chemistry Contact: Deborah Andrasko			**Airbill No:**
Sampler(s): Sam Melecosky			**Date Shipped:** 7/13/15

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOC	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
1	SW-071015-SM-001	07/10/15	815	WG	G		9							9	X	X	
2	SW-071015-SM-002	↓	830	WG	G		3							3	X		
3	SW-071015-SM-003	↓	835	WG	G		3							3	X		
4	TB-071015-SM-001	07/10/15	845	TB	G		1							1	X		
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

SM 7/10/15

TAT Required in business days (use separate COCs for different TATs):

☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 16

All Samples in Cooler must be on COC

Notes/ Special Requirements: Held on Ice Over weekend

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
1.	GHD	7/13/15	1530	1.	TA	7-14-15	1000
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

Page 21 of 22

7/10/2015

TestAmerica Canton Sample Receipt Form/Narrative Login # : 63134
Canton Facility

Client CRA Site Name

Cooler Received on 7-13-15 Opened on 7-14-15

Cooler unpacked by:

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A (CF +1.0 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 3.6 °C

~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

☐ See Multiple Cooler Form

IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC432654
12. Were VOAs on the COC? (Yes) No
13. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # (Yes) No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-56509-1
Client Project/Site: 17302-T07, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Authorized for release by:
10/22/2015 3:16:32 PM
Nathan Pietras, Project Manager II
(330)966-8296
nathan.pietras@testamericainc.com

Designee for

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56509-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-56509-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 17302-T07, RACER Delphi Anderson

Report Number: 240-56509-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 10/13/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GW-100815-TP-001 (240-56509-1), RB-100815-TP-001 (240-56509-2), GW-100815-TP-002 (240-56509-3), GW-100815-TP-003 (240-56509-4), GW-100815-TP-004 (240-56509-5), GW-100815-TP-005 (240-56509-6), GW-100815-TP-006 (240-56509-7), TB-100815-TP-001 (240-56509-8), GW-100915-TP-007 (240-56509-9), GW-100915-TP-008 (240-56509-10), GW-100915-TP-009 (240-56509-11), GW-100915-TP-010 (240-56509-12), GW-100915-TP-011 (240-56509-13), GW-100915-TP-012 (240-56509-14), GW-101215-TP-013 (240-56509-15), RB-101215-TP-002 (240-56509-16), GW-101215-TP-014 (240-56509-17), GW-101215-TP-015 (240-56509-18), GW-101215-TP-016 (240-56509-19), GW-101215-TP-017 (240-56509-20), GW-101215-TP-018 (240-56509-21), GW-101215-TP-019 (240-56509-22) and GW-101215-TP-020 (240-56509-23) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/16/2015, 10/20/2015 and 10/21/2015.

1,1,1-Trichloroethane, 1,2-Dichloroethane and Carbon tetrachloride failed the recovery criteria high for LCS 240-202132/4.

Samples GW-100815-TP-001 (240-56509-1)[1.67X], GW-100815-TP-005 (240-56509-6)[2X], GW-100815-TP-006 (240-56509-7)[8X],

Job ID: 240-56509-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

GW-100915-TP-007 (240-56509-9)[5X], GW-100915-TP-010 (240-56509-12)[5X], GW-101215-TP-013 (240-56509-15)[40X], GW-101215-TP-014 (240-56509-17)[333.33X], GW-101215-TP-015 (240-56509-18)[250X], GW-101215-TP-016 (240-56509-19)[166.67X] and GW-101215-TP-018 (240-56509-21)[200X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8260B: The laboratory control sample (LCS) for batch analytical batch 240-202132 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56509-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56509-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-56509-1	GW-100815-TP-001	Water	10/08/15 11:27	10/13/15 09:30
240-56509-2	RB-100815-TP-001	Water	10/08/15 11:35	10/13/15 09:30
240-56509-3	GW-100815-TP-002	Water	10/08/15 12:47	10/13/15 09:30
240-56509-4	GW-100815-TP-003	Water	10/08/15 12:49	10/13/15 09:30
240-56509-5	GW-100815-TP-004	Water	10/08/15 13:40	10/13/15 09:30
240-56509-6	GW-100815-TP-005	Water	10/08/15 14:32	10/13/15 09:30
240-56509-7	GW-100815-TP-006	Water	10/08/15 15:18	10/13/15 09:30
240-56509-8	TB-100815-TP-001	Water	10/08/15 15:45	10/13/15 09:30
240-56509-9	GW-100915-TP-007	Water	10/09/15 09:35	10/13/15 09:30
240-56509-10	GW-100915-TP-008	Water	10/09/15 10:37	10/13/15 09:30
240-56509-11	GW-100915-TP-009	Water	10/09/15 11:23	10/13/15 09:30
240-56509-12	GW-100915-TP-010	Water	10/09/15 11:59	10/13/15 09:30
240-56509-13	GW-100915-TP-011	Water	10/09/15 12:42	10/13/15 09:30
240-56509-14	GW-100915-TP-012	Water	10/09/15 14:30	10/13/15 09:30
240-56509-15	GW-101215-TP-013	Water	10/12/15 12:07	10/13/15 09:30
240-56509-16	RB-101215-TP-002	Water	10/12/15 12:15	10/13/15 09:30
240-56509-17	GW-101215-TP-014	Water	10/12/15 12:58	10/13/15 09:30
240-56509-18	GW-101215-TP-015	Water	10/12/15 13:00	10/13/15 09:30
240-56509-19	GW-101215-TP-016	Water	10/12/15 13:42	10/13/15 09:30
240-56509-20	GW-101215-TP-017	Water	10/12/15 14:22	10/13/15 09:30
240-56509-21	GW-101215-TP-018	Water	10/12/15 15:07	10/13/15 09:30
240-56509-22	GW-101215-TP-019	Water	10/12/15 15:58	10/13/15 09:30
240-56509-23	GW-101215-TP-020	Water	10/12/15 16:40	10/13/15 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56509-1

Client Sample ID: GW-100815-TP-001 — Lab Sample ID: 240-56509-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.2	J	1.7	0.43	ug/L	1.67		8260B	Total/NA
Vinyl chloride	40		1.7	0.48	ug/L	1.67		8260B	Total/NA

Client Sample ID: RB-100815-TP-001 — Lab Sample ID: 240-56509-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.62	J	10	0.53	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100815-TP-002 — Lab Sample ID: 240-56509-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.0		1.0	0.29	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100815-TP-003 — Lab Sample ID: 240-56509-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.98	J	1.0	0.29	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100815-TP-004 — Lab Sample ID: 240-56509-5

No Detections.

Client Sample ID: GW-100815-TP-005 — Lab Sample ID: 240-56509-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.5		2.0	0.60	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	51		2.0	0.52	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	3.2		2.0	0.60	ug/L	2		8260B	Total/NA
Vinyl chloride	1.2	J	2.0	0.58	ug/L	2		8260B	Total/NA

Client Sample ID: GW-100815-TP-006 — Lab Sample ID: 240-56509-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.2	J	8.0	2.4	ug/L	8		8260B	Total/NA
cis-1,2-Dichloroethene	190		8.0	2.1	ug/L	8		8260B	Total/NA
Vinyl chloride	62		8.0	2.3	ug/L	8		8260B	Total/NA

Client Sample ID: TB-100815-TP-001 — Lab Sample ID: 240-56509-8

No Detections.

Client Sample ID: GW-100915-TP-007 — Lab Sample ID: 240-56509-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	80		5.0	1.3	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	1.9	J	5.0	1.5	ug/L	5		8260B	Total/NA

Client Sample ID: GW-100915-TP-008 — Lab Sample ID: 240-56509-10

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56509-1

Client Sample ID: GW-100915-TP-009 — Lab Sample ID: 240-56509-11

No Detections.

Client Sample ID: GW-100915-TP-010 — Lab Sample ID: 240-56509-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.3		5.0	1.3	ug/L	5		8260B	Total/NA
Trichloroethene	160		5.0	1.1	ug/L	5		8260B	Total/NA
Vinyl chloride	7.9		5.0	1.5	ug/L	5		8260B	Total/NA

Client Sample ID: GW-100915-TP-011 — Lab Sample ID: 240-56509-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.68	J	1.0	0.29	ug/L	1		8260B	Total/NA

Client Sample ID: GW-100915-TP-012 — Lab Sample ID: 240-56509-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	3.7		1.0	0.29	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101215-TP-013 — Lab Sample ID: 240-56509-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	860		40	10	ug/L	40		8260B	Total/NA
trans-1,2-Dichloroethene	12	J	40	12	ug/L	40		8260B	Total/NA
Vinyl chloride	210		40	12	ug/L	40		8260B	Total/NA

Client Sample ID: RB-101215-TP-002 — Lab Sample ID: 240-56509-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.1	J	10	0.53	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101215-TP-014 — Lab Sample ID: 240-56509-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6500		330	87	ug/L	333.33		8260B	Total/NA
trans-1,2-Dichloroethene	120	J	330	100	ug/L	333.33		8260B	Total/NA
Vinyl chloride	390		330	97	ug/L	333.33		8260B	Total/NA

Client Sample ID: GW-101215-TP-015 — Lab Sample ID: 240-56509-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6200		250	65	ug/L	250		8260B	Total/NA
trans-1,2-Dichloroethene	110	J	250	75	ug/L	250		8260B	Total/NA
Vinyl chloride	390		250	73	ug/L	250		8260B	Total/NA

Client Sample ID: GW-101215-TP-016 — Lab Sample ID: 240-56509-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4400		170	43	ug/L	166.67		8260B	Total/NA
trans-1,2-Dichloroethene	190		170	50	ug/L	166.67		8260B	Total/NA
Vinyl chloride	140	J	170	48	ug/L	166.67		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56509-1

Client Sample ID: GW-101215-TP-017 — Lab Sample ID: 240-56509-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.27	J	1.0	0.26	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101215-TP-018 — Lab Sample ID: 240-56509-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4700		200	52	ug/L	200		8260B	Total/NA
Vinyl chloride	140	J	200	58	ug/L	200		8260B	Total/NA

Client Sample ID: GW-101215-TP-019 — Lab Sample ID: 240-56509-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.41	J	1.0	0.26	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101215-TP-020 — Lab Sample ID: 240-56509-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.26	J	1.0	0.26	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: GW-100815-TP-001
Date Collected: 10/08/15 11:27
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.7	U *	1.7	0.73	ug/L			10/16/15 08:07	1.67
1,1,2,2-Tetrachloroethane	1.7	U	1.7	0.37	ug/L			10/16/15 08:07	1.67
1,1,2-Trichloroethane	1.7	U	1.7	0.40	ug/L			10/16/15 08:07	1.67
1,1-Dichloroethane	1.7	U	1.7	0.50	ug/L			10/16/15 08:07	1.67
1,1-Dichloroethene	1.7	U	1.7	0.75	ug/L			10/16/15 08:07	1.67
1,2-Dichloroethane	1.7	U *	1.7	0.38	ug/L			10/16/15 08:07	1.67
1,2-Dichloropropane	1.7	U	1.7	0.42	ug/L			10/16/15 08:07	1.67
2-Hexanone	17	U	17	0.80	ug/L			10/16/15 08:07	1.67
Acetone	17	U	17	1.6	ug/L			10/16/15 08:07	1.67
Benzene	1.7	U	1.7	0.58	ug/L			10/16/15 08:07	1.67
Bromoform	1.7	U	1.7	0.94	ug/L			10/16/15 08:07	1.67
Bromomethane	1.7	U	1.7	0.73	ug/L			10/16/15 08:07	1.67
Carbon disulfide	1.7	U	1.7	0.63	ug/L			10/16/15 08:07	1.67
Carbon tetrachloride	1.7	U *	1.7	0.72	ug/L			10/16/15 08:07	1.67
Chlorobenzene	1.7	U	1.7	0.42	ug/L			10/16/15 08:07	1.67
Chloroethane	1.7	U	1.7	0.53	ug/L			10/16/15 08:07	1.67
Chloroform	1.7	U	1.7	0.42	ug/L			10/16/15 08:07	1.67
Chloromethane	1.7	U	1.7	0.73	ug/L			10/16/15 08:07	1.67
cis-1,2-Dichloroethene	**1.2**	**J**	1.7	0.43	ug/L			10/16/15 08:07	1.67
cis-1,3-Dichloropropene	1.7	U	1.7	0.77	ug/L			10/16/15 08:07	1.67
Dichlorobromomethane	1.7	U	1.7	0.48	ug/L			10/16/15 08:07	1.67
Ethylbenzene	1.7	U	1.7	0.42	ug/L			10/16/15 08:07	1.67
2-Butanone (MEK)	17	U	17	0.89	ug/L			10/16/15 08:07	1.67
4-Methyl-2-pentanone (MIBK)	17	U	17	1.7	ug/L			10/16/15 08:07	1.67
Methylene Chloride	1.7	U	1.7	0.55	ug/L			10/16/15 08:07	1.67
Styrene	1.7	U	1.7	0.75	ug/L			10/16/15 08:07	1.67
Tetrachloroethene	1.7	U	1.7	0.52	ug/L			10/16/15 08:07	1.67
Toluene	1.7	U	1.7	0.38	ug/L			10/16/15 08:07	1.67
trans-1,2-Dichloroethene	1.7	U	1.7	0.50	ug/L			10/16/15 08:07	1.67
trans-1,3-Dichloropropene	1.7	U	1.7	0.94	ug/L			10/16/15 08:07	1.67
Trichloroethene	1.7	U	1.7	0.37	ug/L			10/16/15 08:07	1.67
Vinyl chloride	**40**		1.7	0.48	ug/L			10/16/15 08:07	1.67
Xylenes, Total	3.3	U	3.3	0.87	ug/L			10/16/15 08:07	1.67
Chlorodibromomethane	1.7	U	1.7	0.72	ug/L			10/16/15 08:07	1.67

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*78 - 125*		*10/16/15 08:07*	*1.67*
4-Bromofluorobenzene (Surr)	*96*		*61 - 120*		*10/16/15 08:07*	*1.67*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/16/15 08:07*	*1.67*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*10/16/15 08:07*	*1.67*

Client Sample ID: RB-100815-TP-001
Date Collected: 10/08/15 11:35
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U *	1.0	0.44	ug/L			10/16/15 03:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/16/15 03:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/16/15 03:38	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/16/15 03:38	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/16/15 03:38	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-100815-TP-001
Date Collected: 10/08/15 11:35
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U *	1.0	0.23	ug/L			10/16/15 03:38	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/16/15 03:38	1
2-Hexanone	10	U	10	0.48	ug/L			10/16/15 03:38	1
Acetone	10	U	10	0.94	ug/L			10/16/15 03:38	1
Benzene	1.0	U	1.0	0.35	ug/L			10/16/15 03:38	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/16/15 03:38	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/16/15 03:38	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/16/15 03:38	1
Carbon tetrachloride	1.0	U *	1.0	0.43	ug/L			10/16/15 03:38	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/16/15 03:38	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/16/15 03:38	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/16/15 03:38	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/16/15 03:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/16/15 03:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/16/15 03:38	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/16/15 03:38	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/16/15 03:38	1
2-Butanone (MEK)	**0.62**	**J**	10	0.53	ug/L			10/16/15 03:38	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/16/15 03:38	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/16/15 03:38	1
Styrene	1.0	U	1.0	0.45	ug/L			10/16/15 03:38	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/16/15 03:38	1
Toluene	1.0	U	1.0	0.23	ug/L			10/16/15 03:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/16/15 03:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/16/15 03:38	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/16/15 03:38	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/16/15 03:38	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/16/15 03:38	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/16/15 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*78 - 125*		*10/16/15 03:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*61 - 120*		*10/16/15 03:38*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/16/15 03:38*	*1*
Dibromofluoromethane (Surr)	*98*		*79 - 120*		*10/16/15 03:38*	*1*

Client Sample ID: GW-100815-TP-002
Date Collected: 10/08/15 12:47
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U *	1.0	0.44	ug/L			10/16/15 04:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/16/15 04:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/16/15 04:00	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/16/15 04:00	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/16/15 04:00	1
1,2-Dichloroethane	1.0	U *	1.0	0.23	ug/L			10/16/15 04:00	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/16/15 04:00	1
2-Hexanone	10	U	10	0.48	ug/L			10/16/15 04:00	1
Acetone	10	U	10	0.94	ug/L			10/16/15 04:00	1
Benzene	1.0	U	1.0	0.35	ug/L			10/16/15 04:00	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-100815-TP-002
Date Collected: 10/08/15 12:47
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	1.0	U	1.0	0.56	ug/L			10/16/15 04:00	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/16/15 04:00	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/16/15 04:00	1
Carbon tetrachloride	1.0	U *	1.0	0.43	ug/L			10/16/15 04:00	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/16/15 04:00	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/16/15 04:00	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/16/15 04:00	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/16/15 04:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/16/15 04:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/16/15 04:00	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/16/15 04:00	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/16/15 04:00	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/16/15 04:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/16/15 04:00	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/16/15 04:00	1
Styrene	1.0	U	1.0	0.45	ug/L			10/16/15 04:00	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/16/15 04:00	1
Toluene	1.0	U	1.0	0.23	ug/L			10/16/15 04:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/16/15 04:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/16/15 04:00	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/16/15 04:00	1
Vinyl chloride	**1.0**		1.0	0.29	ug/L			10/16/15 04:00	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/16/15 04:00	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/16/15 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*78 - 125*		*10/16/15 04:00*	*1*
4-Bromofluorobenzene (Surr)	*98*		*61 - 120*		*10/16/15 04:00*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/16/15 04:00*	*1*
Dibromofluoromethane (Surr)	*95*		*79 - 120*		*10/16/15 04:00*	*1*

Client Sample ID: GW-100815-TP-003
Date Collected: 10/08/15 12:49
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U *	1.0	0.44	ug/L			10/16/15 04:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/16/15 04:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/16/15 04:22	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/16/15 04:22	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/16/15 04:22	1
1,2-Dichloroethane	1.0	U *	1.0	0.23	ug/L			10/16/15 04:22	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/16/15 04:22	1
2-Hexanone	10	U	10	0.48	ug/L			10/16/15 04:22	1
Acetone	10	U	10	0.94	ug/L			10/16/15 04:22	1
Benzene	1.0	U	1.0	0.35	ug/L			10/16/15 04:22	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/16/15 04:22	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/16/15 04:22	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/16/15 04:22	1
Carbon tetrachloride	1.0	U *	1.0	0.43	ug/L			10/16/15 04:22	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/16/15 04:22	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-100815-TP-003
Date Collected: 10/08/15 12:49
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.32	ug/L			10/16/15 04:22	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/16/15 04:22	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/16/15 04:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/16/15 04:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/16/15 04:22	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/16/15 04:22	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/16/15 04:22	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/16/15 04:22	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/16/15 04:22	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/16/15 04:22	1
Styrene	1.0	U	1.0	0.45	ug/L			10/16/15 04:22	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/16/15 04:22	1
Toluene	1.0	U	1.0	0.23	ug/L			10/16/15 04:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/16/15 04:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/16/15 04:22	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/16/15 04:22	1
Vinyl chloride	**0.98**	**J**	1.0	0.29	ug/L			10/16/15 04:22	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/16/15 04:22	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/16/15 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*78 - 125*		*10/16/15 04:22*	*1*
4-Bromofluorobenzene (Surr)	*94*		*61 - 120*		*10/16/15 04:22*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/16/15 04:22*	*1*
Dibromofluoromethane (Surr)	*91*		*79 - 120*		*10/16/15 04:22*	*1*

Client Sample ID: GW-100815-TP-004
Date Collected: 10/08/15 13:40
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U *	1.0	0.44	ug/L			10/16/15 04:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/16/15 04:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/16/15 04:45	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/16/15 04:45	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/16/15 04:45	1
1,2-Dichloroethane	1.0	U *	1.0	0.23	ug/L			10/16/15 04:45	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/16/15 04:45	1
2-Hexanone	10	U	10	0.48	ug/L			10/16/15 04:45	1
Acetone	10	U	10	0.94	ug/L			10/16/15 04:45	1
Benzene	1.0	U	1.0	0.35	ug/L			10/16/15 04:45	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/16/15 04:45	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/16/15 04:45	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/16/15 04:45	1
Carbon tetrachloride	1.0	U *	1.0	0.43	ug/L			10/16/15 04:45	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/16/15 04:45	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/16/15 04:45	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/16/15 04:45	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/16/15 04:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/16/15 04:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/16/15 04:45	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-100815-TP-004
Date Collected: 10/08/15 13:40
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/16/15 04:45	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/16/15 04:45	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/16/15 04:45	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/16/15 04:45	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/16/15 04:45	1
Styrene	1.0	U	1.0	0.45	ug/L			10/16/15 04:45	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/16/15 04:45	1
Toluene	1.0	U	1.0	0.23	ug/L			10/16/15 04:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/16/15 04:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/16/15 04:45	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/16/15 04:45	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/16/15 04:45	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/16/15 04:45	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/16/15 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*78 - 125*		*10/16/15 04:45*	*1*
4-Bromofluorobenzene (Surr)	*96*		*61 - 120*		*10/16/15 04:45*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/16/15 04:45*	*1*
Dibromofluoromethane (Surr)	*103*		*79 - 120*		*10/16/15 04:45*	*1*

Client Sample ID: GW-100815-TP-005
Date Collected: 10/08/15 14:32
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U	2.0	0.88	ug/L			10/20/15 15:38	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.44	ug/L			10/20/15 15:38	2
1,1,2-Trichloroethane	2.0	U	2.0	0.48	ug/L			10/20/15 15:38	2
1,1-Dichloroethane	**2.5**		2.0	0.60	ug/L			10/20/15 15:38	2
1,1-Dichloroethene	2.0	U	2.0	0.90	ug/L			10/20/15 15:38	2
1,2-Dichloroethane	2.0	U	2.0	0.46	ug/L			10/20/15 15:38	2
1,2-Dichloropropane	2.0	U	2.0	0.50	ug/L			10/20/15 15:38	2
2-Hexanone	20	U	20	0.96	ug/L			10/20/15 15:38	2
Acetone	20	U	20	1.9	ug/L			10/20/15 15:38	2
Benzene	2.0	U	2.0	0.70	ug/L			10/20/15 15:38	2
Bromoform	2.0	U	2.0	1.1	ug/L			10/20/15 15:38	2
Bromomethane	2.0	U	2.0	0.88	ug/L			10/20/15 15:38	2
Carbon disulfide	2.0	U	2.0	0.76	ug/L			10/20/15 15:38	2
Carbon tetrachloride	2.0	U	2.0	0.86	ug/L			10/20/15 15:38	2
Chlorobenzene	2.0	U	2.0	0.50	ug/L			10/20/15 15:38	2
Chloroethane	2.0	U	2.0	0.64	ug/L			10/20/15 15:38	2
Chloroform	2.0	U	2.0	0.50	ug/L			10/20/15 15:38	2
Chloromethane	2.0	U	2.0	0.88	ug/L			10/20/15 15:38	2
cis-1,2-Dichloroethene	**51**		2.0	0.52	ug/L			10/20/15 15:38	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.92	ug/L			10/20/15 15:38	2
Dichlorobromomethane	2.0	U	2.0	0.58	ug/L			10/20/15 15:38	2
Ethylbenzene	2.0	U	2.0	0.50	ug/L			10/20/15 15:38	2
2-Butanone (MEK)	20	U	20	1.1	ug/L			10/20/15 15:38	2
4-Methyl-2-pentanone (MIBK)	20	U	20	2.0	ug/L			10/20/15 15:38	2
Methylene Chloride	2.0	U	2.0	0.66	ug/L			10/20/15 15:38	2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-100815-TP-005
Date Collected: 10/08/15 14:32
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	2.0	U	2.0	0.90	ug/L			10/20/15 15:38	2
Tetrachloroethene	2.0	U	2.0	0.62	ug/L			10/20/15 15:38	2
Toluene	2.0	U	2.0	0.46	ug/L			10/20/15 15:38	2
trans-1,2-Dichloroethene	**3.2**		2.0	0.60	ug/L			10/20/15 15:38	2
trans-1,3-Dichloropropene	2.0	U	2.0	1.1	ug/L			10/20/15 15:38	2
Trichloroethene	2.0	U	2.0	0.44	ug/L			10/20/15 15:38	2
Vinyl chloride	**1.2**	**J**	2.0	0.58	ug/L			10/20/15 15:38	2
Xylenes, Total	4.0	U	4.0	1.0	ug/L			10/20/15 15:38	2
Chlorodibromomethane	2.0	U	2.0	0.86	ug/L			10/20/15 15:38	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*78 - 125*		*10/20/15 15:38*	*2*
4-Bromofluorobenzene (Surr)	*98*		*61 - 120*		*10/20/15 15:38*	*2*
Toluene-d8 (Surr)	*92*		*80 - 120*		*10/20/15 15:38*	*2*
Dibromofluoromethane (Surr)	*96*		*79 - 120*		*10/20/15 15:38*	*2*

Client Sample ID: GW-100815-TP-006
Date Collected: 10/08/15 15:18
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	8.0	U	8.0	3.5	ug/L			10/20/15 16:01	8
1,1,2,2-Tetrachloroethane	8.0	U	8.0	1.8	ug/L			10/20/15 16:01	8
1,1,2-Trichloroethane	8.0	U	8.0	1.9	ug/L			10/20/15 16:01	8
1,1-Dichloroethane	**3.2**	**J**	8.0	2.4	ug/L			10/20/15 16:01	8
1,1-Dichloroethene	8.0	U	8.0	3.6	ug/L			10/20/15 16:01	8
1,2-Dichloroethane	8.0	U	8.0	1.8	ug/L			10/20/15 16:01	8
1,2-Dichloropropane	8.0	U	8.0	2.0	ug/L			10/20/15 16:01	8
2-Hexanone	80	U	80	3.8	ug/L			10/20/15 16:01	8
Acetone	80	U	80	7.5	ug/L			10/20/15 16:01	8
Benzene	8.0	U	8.0	2.8	ug/L			10/20/15 16:01	8
Bromoform	8.0	U	8.0	4.5	ug/L			10/20/15 16:01	8
Bromomethane	8.0	U	8.0	3.5	ug/L			10/20/15 16:01	8
Carbon disulfide	8.0	U	8.0	3.0	ug/L			10/20/15 16:01	8
Carbon tetrachloride	8.0	U	8.0	3.4	ug/L			10/20/15 16:01	8
Chlorobenzene	8.0	U	8.0	2.0	ug/L			10/20/15 16:01	8
Chloroethane	8.0	U	8.0	2.6	ug/L			10/20/15 16:01	8
Chloroform	8.0	U	8.0	2.0	ug/L			10/20/15 16:01	8
Chloromethane	8.0	U	8.0	3.5	ug/L			10/20/15 16:01	8
cis-1,2-Dichloroethene	**190**		8.0	2.1	ug/L			10/20/15 16:01	8
cis-1,3-Dichloropropene	8.0	U	8.0	3.7	ug/L			10/20/15 16:01	8
Dichlorobromomethane	8.0	U	8.0	2.3	ug/L			10/20/15 16:01	8
Ethylbenzene	8.0	U	8.0	2.0	ug/L			10/20/15 16:01	8
2-Butanone (MEK)	80	U	80	4.2	ug/L			10/20/15 16:01	8
4-Methyl-2-pentanone (MIBK)	80	U	80	7.9	ug/L			10/20/15 16:01	8
Methylene Chloride	8.0	U	8.0	2.6	ug/L			10/20/15 16:01	8
Styrene	8.0	U	8.0	3.6	ug/L			10/20/15 16:01	8
Tetrachloroethene	8.0	U	8.0	2.5	ug/L			10/20/15 16:01	8
Toluene	8.0	U	8.0	1.8	ug/L			10/20/15 16:01	8
trans-1,2-Dichloroethene	8.0	U	8.0	2.4	ug/L			10/20/15 16:01	8
trans-1,3-Dichloropropene	8.0	U	8.0	4.5	ug/L			10/20/15 16:01	8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-100815-TP-006
Date Collected: 10/08/15 15:18
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	8.0	U	8.0	1.8	ug/L			10/20/15 16:01	8
Vinyl chloride	**62**		8.0	2.3	ug/L			10/20/15 16:01	8
Xylenes, Total	16	U	16	4.2	ug/L			10/20/15 16:01	8
Chlorodibromomethane	8.0	U	8.0	3.4	ug/L			10/20/15 16:01	8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*78 - 125*		*10/20/15 16:01*	*8*
4-Bromofluorobenzene (Surr)	*107*		*61 - 120*		*10/20/15 16:01*	*8*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/20/15 16:01*	*8*
Dibromofluoromethane (Surr)	*97*		*79 - 120*		*10/20/15 16:01*	*8*

Client Sample ID: TB-100815-TP-001
Date Collected: 10/08/15 15:45
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/20/15 16:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/20/15 16:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/20/15 16:24	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/20/15 16:24	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/20/15 16:24	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/20/15 16:24	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/20/15 16:24	1
2-Hexanone	10	U	10	0.48	ug/L			10/20/15 16:24	1
Acetone	10	U	10	0.94	ug/L			10/20/15 16:24	1
Benzene	1.0	U	1.0	0.35	ug/L			10/20/15 16:24	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/20/15 16:24	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/20/15 16:24	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/20/15 16:24	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/20/15 16:24	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/20/15 16:24	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/20/15 16:24	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/20/15 16:24	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/20/15 16:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/20/15 16:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/20/15 16:24	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/20/15 16:24	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/20/15 16:24	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/20/15 16:24	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/20/15 16:24	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/20/15 16:24	1
Styrene	1.0	U	1.0	0.45	ug/L			10/20/15 16:24	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/20/15 16:24	1
Toluene	1.0	U	1.0	0.23	ug/L			10/20/15 16:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/20/15 16:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/20/15 16:24	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/20/15 16:24	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/20/15 16:24	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/20/15 16:24	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/20/15 16:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*78 - 125*		*10/20/15 16:24*	*1*
4-Bromofluorobenzene (Surr)	*100*		*61 - 120*		*10/20/15 16:24*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*10/20/15 16:24*	*1*
Dibromofluoromethane (Surr)	*98*		*79 - 120*		*10/20/15 16:24*	*1*

Client Sample ID: GW-100915-TP-007
Date Collected: 10/09/15 09:35
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	2.2	ug/L			10/20/15 16:46	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1	ug/L			10/20/15 16:46	5
1,1,2-Trichloroethane	5.0	U	5.0	1.2	ug/L			10/20/15 16:46	5
1,1-Dichloroethane	5.0	U	5.0	1.5	ug/L			10/20/15 16:46	5
1,1-Dichloroethene	5.0	U	5.0	2.3	ug/L			10/20/15 16:46	5
1,2-Dichloroethane	5.0	U	5.0	1.2	ug/L			10/20/15 16:46	5
1,2-Dichloropropane	5.0	U	5.0	1.3	ug/L			10/20/15 16:46	5
2-Hexanone	50	U	50	2.4	ug/L			10/20/15 16:46	5
Acetone	50	U	50	4.7	ug/L			10/20/15 16:46	5
Benzene	5.0	U	5.0	1.8	ug/L			10/20/15 16:46	5
Bromoform	5.0	U	5.0	2.8	ug/L			10/20/15 16:46	5
Bromomethane	5.0	U	5.0	2.2	ug/L			10/20/15 16:46	5
Carbon disulfide	5.0	U	5.0	1.9	ug/L			10/20/15 16:46	5
Carbon tetrachloride	5.0	U	5.0	2.2	ug/L			10/20/15 16:46	5
Chlorobenzene	5.0	U	5.0	1.3	ug/L			10/20/15 16:46	5
Chloroethane	5.0	U	5.0	1.6	ug/L			10/20/15 16:46	5
Chloroform	5.0	U	5.0	1.3	ug/L			10/20/15 16:46	5
Chloromethane	5.0	U	5.0	2.2	ug/L			10/20/15 16:46	5
cis-1,2-Dichloroethene	**80**		5.0	1.3	ug/L			10/20/15 16:46	5
cis-1,3-Dichloropropene	5.0	U	5.0	2.3	ug/L			10/20/15 16:46	5
Dichlorobromomethane	5.0	U	5.0	1.5	ug/L			10/20/15 16:46	5
Ethylbenzene	5.0	U	5.0	1.3	ug/L			10/20/15 16:46	5
2-Butanone (MEK)	50	U	50	2.7	ug/L			10/20/15 16:46	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			10/20/15 16:46	5
Methylene Chloride	5.0	U	5.0	1.7	ug/L			10/20/15 16:46	5
Styrene	5.0	U	5.0	2.3	ug/L			10/20/15 16:46	5
Tetrachloroethene	5.0	U	5.0	1.6	ug/L			10/20/15 16:46	5
Toluene	5.0	U	5.0	1.2	ug/L			10/20/15 16:46	5
trans-1,2-Dichloroethene	**1.9**	**J**	5.0	1.5	ug/L			10/20/15 16:46	5
trans-1,3-Dichloropropene	5.0	U	5.0	2.8	ug/L			10/20/15 16:46	5
Trichloroethene	5.0	U	5.0	1.1	ug/L			10/20/15 16:46	5
Vinyl chloride	5.0	U	5.0	1.5	ug/L			10/20/15 16:46	5
Xylenes, Total	10	U	10	2.6	ug/L			10/20/15 16:46	5
Chlorodibromomethane	5.0	U	5.0	2.2	ug/L			10/20/15 16:46	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*78 - 125*		*10/20/15 16:46*	*5*
4-Bromofluorobenzene (Surr)	*92*		*61 - 120*		*10/20/15 16:46*	*5*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/20/15 16:46*	*5*
Dibromofluoromethane (Surr)	*95*		*79 - 120*		*10/20/15 16:46*	*5*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: GW-100915-TP-008
Date Collected: 10/09/15 10:37
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/20/15 17:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/20/15 17:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/20/15 17:09	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/20/15 17:09	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/20/15 17:09	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/20/15 17:09	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/20/15 17:09	1
2-Hexanone	10	U	10	0.48	ug/L			10/20/15 17:09	1
Acetone	10	U	10	0.94	ug/L			10/20/15 17:09	1
Benzene	1.0	U	1.0	0.35	ug/L			10/20/15 17:09	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/20/15 17:09	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/20/15 17:09	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/20/15 17:09	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/20/15 17:09	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/20/15 17:09	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/20/15 17:09	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/20/15 17:09	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/20/15 17:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/20/15 17:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/20/15 17:09	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/20/15 17:09	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/20/15 17:09	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/20/15 17:09	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/20/15 17:09	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/20/15 17:09	1
Styrene	1.0	U	1.0	0.45	ug/L			10/20/15 17:09	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/20/15 17:09	1
Toluene	1.0	U	1.0	0.23	ug/L			10/20/15 17:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/20/15 17:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/20/15 17:09	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/20/15 17:09	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/20/15 17:09	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/20/15 17:09	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/20/15 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*78 - 125*		*10/20/15 17:09*	*1*
4-Bromofluorobenzene (Surr)	*94*		*61 - 120*		*10/20/15 17:09*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/20/15 17:09*	*1*
Dibromofluoromethane (Surr)	*97*		*79 - 120*		*10/20/15 17:09*	*1*

Client Sample ID: GW-100915-TP-009
Date Collected: 10/09/15 11:23
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/20/15 17:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/20/15 17:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/20/15 17:32	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/20/15 17:32	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/20/15 17:32	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-100915-TP-009
Date Collected: 10/09/15 11:23
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/20/15 17:32	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/20/15 17:32	1
2-Hexanone	10	U	10	0.48	ug/L			10/20/15 17:32	1
Acetone	10	U	10	0.94	ug/L			10/20/15 17:32	1
Benzene	1.0	U	1.0	0.35	ug/L			10/20/15 17:32	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/20/15 17:32	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/20/15 17:32	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/20/15 17:32	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/20/15 17:32	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/20/15 17:32	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/20/15 17:32	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/20/15 17:32	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/20/15 17:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/20/15 17:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/20/15 17:32	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/20/15 17:32	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/20/15 17:32	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/20/15 17:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/20/15 17:32	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/20/15 17:32	1
Styrene	1.0	U	1.0	0.45	ug/L			10/20/15 17:32	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/20/15 17:32	1
Toluene	1.0	U	1.0	0.23	ug/L			10/20/15 17:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/20/15 17:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/20/15 17:32	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/20/15 17:32	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/20/15 17:32	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/20/15 17:32	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/20/15 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*78 - 125*		*10/20/15 17:32*	*1*
4-Bromofluorobenzene (Surr)	*97*		*61 - 120*		*10/20/15 17:32*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/20/15 17:32*	*1*
Dibromofluoromethane (Surr)	*96*		*79 - 120*		*10/20/15 17:32*	*1*

Client Sample ID: GW-100915-TP-010
Date Collected: 10/09/15 11:59
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	2.2	ug/L			10/20/15 17:54	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1	ug/L			10/20/15 17:54	5
1,1,2-Trichloroethane	5.0	U	5.0	1.2	ug/L			10/20/15 17:54	5
1,1-Dichloroethane	5.0	U	5.0	1.5	ug/L			10/20/15 17:54	5
1,1-Dichloroethene	5.0	U	5.0	2.3	ug/L			10/20/15 17:54	5
1,2-Dichloroethane	5.0	U	5.0	1.2	ug/L			10/20/15 17:54	5
1,2-Dichloropropane	5.0	U	5.0	1.3	ug/L			10/20/15 17:54	5
2-Hexanone	50	U	50	2.4	ug/L			10/20/15 17:54	5
Acetone	50	U	50	4.7	ug/L			10/20/15 17:54	5
Benzene	5.0	U	5.0	1.8	ug/L			10/20/15 17:54	5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-100915-TP-010
Date Collected: 10/09/15 11:59
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	5.0	U	5.0	2.8	ug/L			10/20/15 17:54	5
Bromomethane	5.0	U	5.0	2.2	ug/L			10/20/15 17:54	5
Carbon disulfide	5.0	U	5.0	1.9	ug/L			10/20/15 17:54	5
Carbon tetrachloride	5.0	U	5.0	2.2	ug/L			10/20/15 17:54	5
Chlorobenzene	5.0	U	5.0	1.3	ug/L			10/20/15 17:54	5
Chloroethane	5.0	U	5.0	1.6	ug/L			10/20/15 17:54	5
Chloroform	5.0	U	5.0	1.3	ug/L			10/20/15 17:54	5
Chloromethane	5.0	U	5.0	2.2	ug/L			10/20/15 17:54	5
cis-1,2-Dichloroethene	**8.3**		5.0	1.3	ug/L			10/20/15 17:54	5
cis-1,3-Dichloropropene	5.0	U	5.0	2.3	ug/L			10/20/15 17:54	5
Dichlorobromomethane	5.0	U	5.0	1.5	ug/L			10/20/15 17:54	5
Ethylbenzene	5.0	U	5.0	1.3	ug/L			10/20/15 17:54	5
2-Butanone (MEK)	50	U	50	2.7	ug/L			10/20/15 17:54	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			10/20/15 17:54	5
Methylene Chloride	5.0	U	5.0	1.7	ug/L			10/20/15 17:54	5
Styrene	5.0	U	5.0	2.3	ug/L			10/20/15 17:54	5
Tetrachloroethene	5.0	U	5.0	1.6	ug/L			10/20/15 17:54	5
Toluene	5.0	U	5.0	1.2	ug/L			10/20/15 17:54	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.5	ug/L			10/20/15 17:54	5
trans-1,3-Dichloropropene	5.0	U	5.0	2.8	ug/L			10/20/15 17:54	5
Trichloroethene	**160**		5.0	1.1	ug/L			10/20/15 17:54	5
Vinyl chloride	**7.9**		5.0	1.5	ug/L			10/20/15 17:54	5
Xylenes, Total	10	U	10	2.6	ug/L			10/20/15 17:54	5
Chlorodibromomethane	5.0	U	5.0	2.2	ug/L			10/20/15 17:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*78 - 125*		*10/20/15 17:54*	*5*
4-Bromofluorobenzene (Surr)	*102*		*61 - 120*		*10/20/15 17:54*	*5*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/20/15 17:54*	*5*
Dibromofluoromethane (Surr)	*98*		*79 - 120*		*10/20/15 17:54*	*5*

Client Sample ID: GW-100915-TP-011
Date Collected: 10/09/15 12:42
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/20/15 18:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/20/15 18:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/20/15 18:17	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/20/15 18:17	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/20/15 18:17	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/20/15 18:17	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/20/15 18:17	1
2-Hexanone	10	U	10	0.48	ug/L			10/20/15 18:17	1
Acetone	10	U	10	0.94	ug/L			10/20/15 18:17	1
Benzene	1.0	U	1.0	0.35	ug/L			10/20/15 18:17	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/20/15 18:17	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/20/15 18:17	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/20/15 18:17	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/20/15 18:17	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/20/15 18:17	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-100915-TP-011
Date Collected: 10/09/15 12:42
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.32	ug/L			10/20/15 18:17	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/20/15 18:17	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/20/15 18:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/20/15 18:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/20/15 18:17	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/20/15 18:17	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/20/15 18:17	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/20/15 18:17	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/20/15 18:17	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/20/15 18:17	1
Styrene	1.0	U	1.0	0.45	ug/L			10/20/15 18:17	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/20/15 18:17	1
Toluene	1.0	U	1.0	0.23	ug/L			10/20/15 18:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/20/15 18:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/20/15 18:17	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/20/15 18:17	1
Vinyl chloride	**0.68**	**J**	1.0	0.29	ug/L			10/20/15 18:17	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/20/15 18:17	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/20/15 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*78 - 125*		*10/20/15 18:17*	*1*
4-Bromofluorobenzene (Surr)	*99*		*61 - 120*		*10/20/15 18:17*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/20/15 18:17*	*1*
Dibromofluoromethane (Surr)	*95*		*79 - 120*		*10/20/15 18:17*	*1*

Client Sample ID: GW-100915-TP-012
Date Collected: 10/09/15 14:30
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/20/15 18:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/20/15 18:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/20/15 18:40	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/20/15 18:40	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/20/15 18:40	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/20/15 18:40	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/20/15 18:40	1
2-Hexanone	10	U	10	0.48	ug/L			10/20/15 18:40	1
Acetone	10	U	10	0.94	ug/L			10/20/15 18:40	1
Benzene	1.0	U	1.0	0.35	ug/L			10/20/15 18:40	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/20/15 18:40	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/20/15 18:40	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/20/15 18:40	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/20/15 18:40	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/20/15 18:40	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/20/15 18:40	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/20/15 18:40	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/20/15 18:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/20/15 18:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/20/15 18:40	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-100915-TP-012
Date Collected: 10/09/15 14:30
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/20/15 18:40	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/20/15 18:40	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/20/15 18:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/20/15 18:40	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/20/15 18:40	1
Styrene	1.0	U	1.0	0.45	ug/L			10/20/15 18:40	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/20/15 18:40	1
Toluene	1.0	U	1.0	0.23	ug/L			10/20/15 18:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/20/15 18:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/20/15 18:40	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/20/15 18:40	1
Vinyl chloride	**3.7**		1.0	0.29	ug/L			10/20/15 18:40	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/20/15 18:40	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/20/15 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*78 - 125*		*10/20/15 18:40*	*1*
4-Bromofluorobenzene (Surr)	*95*		*61 - 120*		*10/20/15 18:40*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/20/15 18:40*	*1*
Dibromofluoromethane (Surr)	*96*		*79 - 120*		*10/20/15 18:40*	*1*

Client Sample ID: GW-101215-TP-013
Date Collected: 10/12/15 12:07
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	40	U	40	18	ug/L			10/20/15 19:02	40
1,1,2,2-Tetrachloroethane	40	U	40	8.8	ug/L			10/20/15 19:02	40
1,1,2-Trichloroethane	40	U	40	9.6	ug/L			10/20/15 19:02	40
1,1-Dichloroethane	40	U	40	12	ug/L			10/20/15 19:02	40
1,1-Dichloroethene	40	U	40	18	ug/L			10/20/15 19:02	40
1,2-Dichloroethane	40	U	40	9.2	ug/L			10/20/15 19:02	40
1,2-Dichloropropane	40	U	40	10	ug/L			10/20/15 19:02	40
2-Hexanone	400	U	400	19	ug/L			10/20/15 19:02	40
Acetone	400	U	400	38	ug/L			10/20/15 19:02	40
Benzene	40	U	40	14	ug/L			10/20/15 19:02	40
Bromoform	40	U	40	22	ug/L			10/20/15 19:02	40
Bromomethane	40	U	40	18	ug/L			10/20/15 19:02	40
Carbon disulfide	40	U	40	15	ug/L			10/20/15 19:02	40
Carbon tetrachloride	40	U	40	17	ug/L			10/20/15 19:02	40
Chlorobenzene	40	U	40	10	ug/L			10/20/15 19:02	40
Chloroethane	40	U	40	13	ug/L			10/20/15 19:02	40
Chloroform	40	U	40	10	ug/L			10/20/15 19:02	40
Chloromethane	40	U	40	18	ug/L			10/20/15 19:02	40
cis-1,2-Dichloroethene	**860**		40	10	ug/L			10/20/15 19:02	40
cis-1,3-Dichloropropene	40	U	40	18	ug/L			10/20/15 19:02	40
Dichlorobromomethane	40	U	40	12	ug/L			10/20/15 19:02	40
Ethylbenzene	40	U	40	10	ug/L			10/20/15 19:02	40
2-Butanone (MEK)	400	U	400	21	ug/L			10/20/15 19:02	40
4-Methyl-2-pentanone (MIBK)	400	U	400	40	ug/L			10/20/15 19:02	40
Methylene Chloride	40	U	40	13	ug/L			10/20/15 19:02	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101215-TP-013
Date Collected: 10/12/15 12:07
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	40	U	40	18	ug/L			10/20/15 19:02	40
Tetrachloroethene	40	U	40	12	ug/L			10/20/15 19:02	40
Toluene	40	U	40	9.2	ug/L			10/20/15 19:02	40
trans-1,2-Dichloroethene	**12**	**J**	40	12	ug/L			10/20/15 19:02	40
trans-1,3-Dichloropropene	40	U	40	22	ug/L			10/20/15 19:02	40
Trichloroethene	40	U	40	8.8	ug/L			10/20/15 19:02	40
Vinyl chloride	**210**		40	12	ug/L			10/20/15 19:02	40
Xylenes, Total	80	U	80	21	ug/L			10/20/15 19:02	40
Chlorodibromomethane	40	U	40	17	ug/L			10/20/15 19:02	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*78 - 125*		*10/20/15 19:02*	*40*
4-Bromofluorobenzene (Surr)	*98*		*61 - 120*		*10/20/15 19:02*	*40*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/20/15 19:02*	*40*
Dibromofluoromethane (Surr)	*98*		*79 - 120*		*10/20/15 19:02*	*40*

Client Sample ID: RB-101215-TP-002
Date Collected: 10/12/15 12:15
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/21/15 17:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/21/15 17:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/21/15 17:01	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/21/15 17:01	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/21/15 17:01	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/21/15 17:01	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/21/15 17:01	1
2-Hexanone	10	U	10	0.48	ug/L			10/21/15 17:01	1
Acetone	10	U	10	0.94	ug/L			10/21/15 17:01	1
Benzene	1.0	U	1.0	0.35	ug/L			10/21/15 17:01	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/21/15 17:01	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/21/15 17:01	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/21/15 17:01	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/21/15 17:01	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/21/15 17:01	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/21/15 17:01	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/21/15 17:01	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/21/15 17:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/21/15 17:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/21/15 17:01	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/21/15 17:01	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/21/15 17:01	1
2-Butanone (MEK)	**1.1**	**J**	10	0.53	ug/L			10/21/15 17:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/21/15 17:01	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/21/15 17:01	1
Styrene	1.0	U	1.0	0.45	ug/L			10/21/15 17:01	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/21/15 17:01	1
Toluene	1.0	U	1.0	0.23	ug/L			10/21/15 17:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/21/15 17:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/21/15 17:01	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-101215-TP-002
Date Collected: 10/12/15 12:15
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/21/15 17:01	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/21/15 17:01	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/21/15 17:01	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/21/15 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*78 - 125*		*10/21/15 17:01*	*1*
4-Bromofluorobenzene (Surr)	*82*		*61 - 120*		*10/21/15 17:01*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/21/15 17:01*	*1*
Dibromofluoromethane (Surr)	*99*		*79 - 120*		*10/21/15 17:01*	*1*

Client Sample ID: GW-101215-TP-014
Date Collected: 10/12/15 12:58
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	330	U	330	150	ug/L			10/21/15 17:26	333.33
1,1,2,2-Tetrachloroethane	330	U	330	73	ug/L			10/21/15 17:26	333.33
1,1,2-Trichloroethane	330	U	330	80	ug/L			10/21/15 17:26	333.33
1,1-Dichloroethane	330	U	330	100	ug/L			10/21/15 17:26	333.33
1,1-Dichloroethene	330	U	330	150	ug/L			10/21/15 17:26	333.33
1,2-Dichloroethane	330	U	330	77	ug/L			10/21/15 17:26	333.33
1,2-Dichloropropane	330	U	330	83	ug/L			10/21/15 17:26	333.33
2-Hexanone	3300	U	3300	160	ug/L			10/21/15 17:26	333.33
Acetone	3300	U	3300	310	ug/L			10/21/15 17:26	333.33
Benzene	330	U	330	120	ug/L			10/21/15 17:26	333.33
Bromoform	330	U	330	190	ug/L			10/21/15 17:26	333.33
Bromomethane	330	U	330	150	ug/L			10/21/15 17:26	333.33
Carbon disulfide	330	U	330	130	ug/L			10/21/15 17:26	333.33
Carbon tetrachloride	330	U	330	140	ug/L			10/21/15 17:26	333.33
Chlorobenzene	330	U	330	83	ug/L			10/21/15 17:26	333.33
Chloroethane	330	U	330	110	ug/L			10/21/15 17:26	333.33
Chloroform	330	U	330	83	ug/L			10/21/15 17:26	333.33
Chloromethane	330	U	330	150	ug/L			10/21/15 17:26	333.33
cis-1,2-Dichloroethene	**6500**		330	87	ug/L			10/21/15 17:26	333.33
cis-1,3-Dichloropropene	330	U	330	150	ug/L			10/21/15 17:26	333.33
Dichlorobromomethane	330	U	330	97	ug/L			10/21/15 17:26	333.33
Ethylbenzene	330	U	330	83	ug/L			10/21/15 17:26	333.33
2-Butanone (MEK)	3300	U	3300	180	ug/L			10/21/15 17:26	333.33
4-Methyl-2-pentanone (MIBK)	3300	U	3300	330	ug/L			10/21/15 17:26	333.33
Methylene Chloride	330	U	330	110	ug/L			10/21/15 17:26	333.33
Styrene	330	U	330	150	ug/L			10/21/15 17:26	333.33
Tetrachloroethene	330	U	330	100	ug/L			10/21/15 17:26	333.33
Toluene	330	U	330	77	ug/L			10/21/15 17:26	333.33
trans-1,2-Dichloroethene	**120**	**J**	330	100	ug/L			10/21/15 17:26	333.33
trans-1,3-Dichloropropene	330	U	330	190	ug/L			10/21/15 17:26	333.33
Trichloroethene	330	U	330	73	ug/L			10/21/15 17:26	333.33
Vinyl chloride	**390**		330	97	ug/L			10/21/15 17:26	333.33
Xylenes, Total	670	U	670	170	ug/L			10/21/15 17:26	333.33
Chlorodibromomethane	330	U	330	140	ug/L			10/21/15 17:26	333.33

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*78 - 125*		*10/21/15 17:26*	*333.33*
4-Bromofluorobenzene (Surr)	*82*		*61 - 120*		*10/21/15 17:26*	*333.33*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/21/15 17:26*	*333.33*
Dibromofluoromethane (Surr)	*99*		*79 - 120*		*10/21/15 17:26*	*333.33*

Client Sample ID: GW-101215-TP-015 — **Lab Sample ID: 240-56509-18**
Date Collected: 10/12/15 13:00 — **Matrix: Water**
Date Received: 10/13/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	250	U	250	110	ug/L			10/21/15 17:51	250
1,1,2,2-Tetrachloroethane	250	U	250	55	ug/L			10/21/15 17:51	250
1,1,2-Trichloroethane	250	U	250	60	ug/L			10/21/15 17:51	250
1,1-Dichloroethane	250	U	250	75	ug/L			10/21/15 17:51	250
1,1-Dichloroethene	250	U	250	110	ug/L			10/21/15 17:51	250
1,2-Dichloroethane	250	U	250	58	ug/L			10/21/15 17:51	250
1,2-Dichloropropane	250	U	250	63	ug/L			10/21/15 17:51	250
2-Hexanone	2500	U	2500	120	ug/L			10/21/15 17:51	250
Acetone	2500	U	2500	240	ug/L			10/21/15 17:51	250
Benzene	250	U	250	88	ug/L			10/21/15 17:51	250
Bromoform	250	U	250	140	ug/L			10/21/15 17:51	250
Bromomethane	250	U	250	110	ug/L			10/21/15 17:51	250
Carbon disulfide	250	U	250	95	ug/L			10/21/15 17:51	250
Carbon tetrachloride	250	U	250	110	ug/L			10/21/15 17:51	250
Chlorobenzene	250	U	250	63	ug/L			10/21/15 17:51	250
Chloroethane	250	U	250	80	ug/L			10/21/15 17:51	250
Chloroform	250	U	250	63	ug/L			10/21/15 17:51	250
Chloromethane	250	U	250	110	ug/L			10/21/15 17:51	250
cis-1,2-Dichloroethene	**6200**		250	65	ug/L			10/21/15 17:51	250
cis-1,3-Dichloropropene	250	U	250	120	ug/L			10/21/15 17:51	250
Dichlorobromomethane	250	U	250	73	ug/L			10/21/15 17:51	250
Ethylbenzene	250	U	250	63	ug/L			10/21/15 17:51	250
2-Butanone (MEK)	2500	U	2500	130	ug/L			10/21/15 17:51	250
4-Methyl-2-pentanone (MIBK)	2500	U	2500	250	ug/L			10/21/15 17:51	250
Methylene Chloride	250	U	250	83	ug/L			10/21/15 17:51	250
Styrene	250	U	250	110	ug/L			10/21/15 17:51	250
Tetrachloroethene	250	U	250	78	ug/L			10/21/15 17:51	250
Toluene	250	U	250	58	ug/L			10/21/15 17:51	250
trans-1,2-Dichloroethene	**110**	**J**	250	75	ug/L			10/21/15 17:51	250
trans-1,3-Dichloropropene	250	U	250	140	ug/L			10/21/15 17:51	250
Trichloroethene	250	U	250	55	ug/L			10/21/15 17:51	250
Vinyl chloride	**390**		250	73	ug/L			10/21/15 17:51	250
Xylenes, Total	500	U	500	130	ug/L			10/21/15 17:51	250
Chlorodibromomethane	250	U	250	110	ug/L			10/21/15 17:51	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*78 - 125*		*10/21/15 17:51*	*250*
4-Bromofluorobenzene (Surr)	*82*		*61 - 120*		*10/21/15 17:51*	*250*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/21/15 17:51*	*250*
Dibromofluoromethane (Surr)	*100*		*79 - 120*		*10/21/15 17:51*	*250*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: GW-101215-TP-016
Date Collected: 10/12/15 13:42
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	170	U	170	73	ug/L			10/21/15 18:16	166.67
1,1,2,2-Tetrachloroethane	170	U	170	37	ug/L			10/21/15 18:16	166.67
1,1,2-Trichloroethane	170	U	170	40	ug/L			10/21/15 18:16	166.67
1,1-Dichloroethane	170	U	170	50	ug/L			10/21/15 18:16	166.67
1,1-Dichloroethene	170	U	170	75	ug/L			10/21/15 18:16	166.67
1,2-Dichloroethane	170	U	170	38	ug/L			10/21/15 18:16	166.67
1,2-Dichloropropane	170	U	170	42	ug/L			10/21/15 18:16	166.67
2-Hexanone	1700	U	1700	80	ug/L			10/21/15 18:16	166.67
Acetone	1700	U	1700	160	ug/L			10/21/15 18:16	166.67
Benzene	170	U	170	58	ug/L			10/21/15 18:16	166.67
Bromoform	170	U	170	93	ug/L			10/21/15 18:16	166.67
Bromomethane	170	U	170	73	ug/L			10/21/15 18:16	166.67
Carbon disulfide	170	U	170	63	ug/L			10/21/15 18:16	166.67
Carbon tetrachloride	170	U	170	72	ug/L			10/21/15 18:16	166.67
Chlorobenzene	170	U	170	42	ug/L			10/21/15 18:16	166.67
Chloroethane	170	U	170	53	ug/L			10/21/15 18:16	166.67
Chloroform	170	U	170	42	ug/L			10/21/15 18:16	166.67
Chloromethane	170	U	170	73	ug/L			10/21/15 18:16	166.67
cis-1,2-Dichloroethene	**4400**		170	43	ug/L			10/21/15 18:16	166.67
cis-1,3-Dichloropropene	170	U	170	77	ug/L			10/21/15 18:16	166.67
Dichlorobromomethane	170	U	170	48	ug/L			10/21/15 18:16	166.67
Ethylbenzene	170	U	170	42	ug/L			10/21/15 18:16	166.67
2-Butanone (MEK)	1700	U	1700	88	ug/L			10/21/15 18:16	166.67
4-Methyl-2-pentanone (MIBK)	1700	U	1700	170	ug/L			10/21/15 18:16	166.67
Methylene Chloride	170	U	170	55	ug/L			10/21/15 18:16	166.67
Styrene	170	U	170	75	ug/L			10/21/15 18:16	166.67
Tetrachloroethene	170	U	170	52	ug/L			10/21/15 18:16	166.67
Toluene	170	U	170	38	ug/L			10/21/15 18:16	166.67
trans-1,2-Dichloroethene	**190**		170	50	ug/L			10/21/15 18:16	166.67
trans-1,3-Dichloropropene	170	U	170	93	ug/L			10/21/15 18:16	166.67
Trichloroethene	170	U	170	37	ug/L			10/21/15 18:16	166.67
Vinyl chloride	**140**	**J**	170	48	ug/L			10/21/15 18:16	166.67
Xylenes, Total	330	U	330	87	ug/L			10/21/15 18:16	166.67
Chlorodibromomethane	170	U	170	72	ug/L			10/21/15 18:16	166.67

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*78 - 125*		*10/21/15 18:16*	*166.67*
4-Bromofluorobenzene (Surr)	*80*		*61 - 120*		*10/21/15 18:16*	*166.67*
Toluene-d8 (Surr)	*92*		*80 - 120*		*10/21/15 18:16*	*166.67*
Dibromofluoromethane (Surr)	*98*		*79 - 120*		*10/21/15 18:16*	*166.67*

Client Sample ID: GW-101215-TP-017
Date Collected: 10/12/15 14:22
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/21/15 18:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/21/15 18:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/21/15 18:40	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/21/15 18:40	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/21/15 18:40	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101215-TP-017
Date Collected: 10/12/15 14:22
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/21/15 18:40	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/21/15 18:40	1
2-Hexanone	10	U	10	0.48	ug/L			10/21/15 18:40	1
Acetone	10	U	10	0.94	ug/L			10/21/15 18:40	1
Benzene	1.0	U	1.0	0.35	ug/L			10/21/15 18:40	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/21/15 18:40	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/21/15 18:40	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/21/15 18:40	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/21/15 18:40	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/21/15 18:40	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/21/15 18:40	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/21/15 18:40	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/21/15 18:40	1
cis-1,2-Dichloroethene	**0.27**	**J**	1.0	0.26	ug/L			10/21/15 18:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/21/15 18:40	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/21/15 18:40	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/21/15 18:40	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/21/15 18:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/21/15 18:40	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/21/15 18:40	1
Styrene	1.0	U	1.0	0.45	ug/L			10/21/15 18:40	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/21/15 18:40	1
Toluene	1.0	U	1.0	0.23	ug/L			10/21/15 18:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/21/15 18:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/21/15 18:40	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/21/15 18:40	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/21/15 18:40	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/21/15 18:40	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/21/15 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*78 - 125*		*10/21/15 18:40*	*1*
4-Bromofluorobenzene (Surr)	*79*		*61 - 120*		*10/21/15 18:40*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/21/15 18:40*	*1*
Dibromofluoromethane (Surr)	*99*		*79 - 120*		*10/21/15 18:40*	*1*

Client Sample ID: GW-101215-TP-018
Date Collected: 10/12/15 15:07
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	200	U	200	88	ug/L			10/21/15 19:05	200
1,1,2,2-Tetrachloroethane	200	U	200	44	ug/L			10/21/15 19:05	200
1,1,2-Trichloroethane	200	U	200	48	ug/L			10/21/15 19:05	200
1,1-Dichloroethane	200	U	200	60	ug/L			10/21/15 19:05	200
1,1-Dichloroethene	200	U	200	90	ug/L			10/21/15 19:05	200
1,2-Dichloroethane	200	U	200	46	ug/L			10/21/15 19:05	200
1,2-Dichloropropane	200	U	200	50	ug/L			10/21/15 19:05	200
2-Hexanone	2000	U	2000	96	ug/L			10/21/15 19:05	200
Acetone	2000	U	2000	190	ug/L			10/21/15 19:05	200
Benzene	200	U	200	70	ug/L			10/21/15 19:05	200

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101215-TP-018
Date Collected: 10/12/15 15:07
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	200	U	200	110	ug/L			10/21/15 19:05	200
Bromomethane	200	U	200	88	ug/L			10/21/15 19:05	200
Carbon disulfide	200	U	200	76	ug/L			10/21/15 19:05	200
Carbon tetrachloride	200	U	200	86	ug/L			10/21/15 19:05	200
Chlorobenzene	200	U	200	50	ug/L			10/21/15 19:05	200
Chloroethane	200	U	200	64	ug/L			10/21/15 19:05	200
Chloroform	200	U	200	50	ug/L			10/21/15 19:05	200
Chloromethane	200	U	200	88	ug/L			10/21/15 19:05	200
cis-1,2-Dichloroethene	**4700**		200	52	ug/L			10/21/15 19:05	200
cis-1,3-Dichloropropene	200	U	200	92	ug/L			10/21/15 19:05	200
Dichlorobromomethane	200	U	200	58	ug/L			10/21/15 19:05	200
Ethylbenzene	200	U	200	50	ug/L			10/21/15 19:05	200
2-Butanone (MEK)	2000	U	2000	110	ug/L			10/21/15 19:05	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	200	ug/L			10/21/15 19:05	200
Methylene Chloride	200	U	200	66	ug/L			10/21/15 19:05	200
Styrene	200	U	200	90	ug/L			10/21/15 19:05	200
Tetrachloroethene	200	U	200	62	ug/L			10/21/15 19:05	200
Toluene	200	U	200	46	ug/L			10/21/15 19:05	200
trans-1,2-Dichloroethene	200	U	200	60	ug/L			10/21/15 19:05	200
trans-1,3-Dichloropropene	200	U	200	110	ug/L			10/21/15 19:05	200
Trichloroethene	200	U	200	44	ug/L			10/21/15 19:05	200
Vinyl chloride	**140**	**J**	200	58	ug/L			10/21/15 19:05	200
Xylenes, Total	400	U	400	100	ug/L			10/21/15 19:05	200
Chlorodibromomethane	200	U	200	86	ug/L			10/21/15 19:05	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*78 - 125*		*10/21/15 19:05*	*200*
4-Bromofluorobenzene (Surr)	*80*		*61 - 120*		*10/21/15 19:05*	*200*
Toluene-d8 (Surr)	*92*		*80 - 120*		*10/21/15 19:05*	*200*
Dibromofluoromethane (Surr)	*101*		*79 - 120*		*10/21/15 19:05*	*200*

Client Sample ID: GW-101215-TP-019
Date Collected: 10/12/15 15:58
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/21/15 19:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/21/15 19:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/21/15 19:30	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/21/15 19:30	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/21/15 19:30	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/21/15 19:30	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/21/15 19:30	1
2-Hexanone	10	U	10	0.48	ug/L			10/21/15 19:30	1
Acetone	10	U	10	0.94	ug/L			10/21/15 19:30	1
Benzene	1.0	U	1.0	0.35	ug/L			10/21/15 19:30	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/21/15 19:30	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/21/15 19:30	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/21/15 19:30	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/21/15 19:30	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/21/15 19:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101215-TP-019
Date Collected: 10/12/15 15:58
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.32	ug/L			10/21/15 19:30	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/21/15 19:30	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/21/15 19:30	1
cis-1,2-Dichloroethene	**0.41**	**J**	1.0	0.26	ug/L			10/21/15 19:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/21/15 19:30	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/21/15 19:30	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/21/15 19:30	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/21/15 19:30	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/21/15 19:30	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/21/15 19:30	1
Styrene	1.0	U	1.0	0.45	ug/L			10/21/15 19:30	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/21/15 19:30	1
Toluene	1.0	U	1.0	0.23	ug/L			10/21/15 19:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/21/15 19:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/21/15 19:30	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/21/15 19:30	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/21/15 19:30	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/21/15 19:30	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/21/15 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*78 - 125*		*10/21/15 19:30*	*1*
4-Bromofluorobenzene (Surr)	*78*		*61 - 120*		*10/21/15 19:30*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/21/15 19:30*	*1*
Dibromofluoromethane (Surr)	*103*		*79 - 120*		*10/21/15 19:30*	*1*

Client Sample ID: GW-101215-TP-020
Date Collected: 10/12/15 16:40
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-23
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/21/15 19:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/21/15 19:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/21/15 19:55	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/21/15 19:55	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/21/15 19:55	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/21/15 19:55	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/21/15 19:55	1
2-Hexanone	10	U	10	0.48	ug/L			10/21/15 19:55	1
Acetone	10	U	10	0.94	ug/L			10/21/15 19:55	1
Benzene	1.0	U	1.0	0.35	ug/L			10/21/15 19:55	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/21/15 19:55	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/21/15 19:55	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/21/15 19:55	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/21/15 19:55	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/21/15 19:55	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/21/15 19:55	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/21/15 19:55	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/21/15 19:55	1
cis-1,2-Dichloroethene	**0.26**	**J**	1.0	0.26	ug/L			10/21/15 19:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/21/15 19:55	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101215-TP-020
Date Collected: 10/12/15 16:40
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-23
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/21/15 19:55	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/21/15 19:55	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/21/15 19:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/21/15 19:55	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/21/15 19:55	1
Styrene	1.0	U	1.0	0.45	ug/L			10/21/15 19:55	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/21/15 19:55	1
Toluene	1.0	U	1.0	0.23	ug/L			10/21/15 19:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/21/15 19:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/21/15 19:55	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/21/15 19:55	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/21/15 19:55	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/21/15 19:55	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/21/15 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*78 - 125*		*10/21/15 19:55*	*1*
4-Bromofluorobenzene (Surr)	*79*		*61 - 120*		*10/21/15 19:55*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*10/21/15 19:55*	*1*
Dibromofluoromethane (Surr)	*106*		*79 - 120*		*10/21/15 19:55*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56509-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-125)	(61-120)	(80-120)	(79-120)
240-56509-1	GW-100815-TP-001	114	96	97	104
240-56509-2	RB-100815-TP-001	112	100	96	98
240-56509-3	GW-100815-TP-002	111	98	97	95
240-56509-4	GW-100815-TP-003	109	94	94	91
240-56509-5	GW-100815-TP-004	117	96	96	103
240-56509-6	GW-100815-TP-005	101	98	92	96
240-56509-7	GW-100815-TP-006	100	107	96	97
240-56509-8	TB-100815-TP-001	103	100	92	98
240-56509-9	GW-100915-TP-007	101	92	95	95
240-56509-10	GW-100915-TP-008	102	94	95	97
240-56509-11	GW-100915-TP-009	106	97	94	96
240-56509-12	GW-100915-TP-010	107	102	93	98
240-56509-13	GW-100915-TP-011	103	99	91	95
240-56509-14	GW-100915-TP-012	104	95	93	96
240-56509-15	GW-101215-TP-013	103	98	94	98
240-56509-16	RB-101215-TP-002	96	82	94	99
240-56509-17	GW-101215-TP-014	94	82	93	99
240-56509-18	GW-101215-TP-015	97	82	91	100
240-56509-19	GW-101215-TP-016	97	80	92	98
240-56509-20	GW-101215-TP-017	98	79	91	99
240-56509-21	GW-101215-TP-018	96	80	92	101
240-56509-22	GW-101215-TP-019	98	78	91	103
240-56509-23	GW-101215-TP-020	100	79	92	106
LCS 240-202132/4	Lab Control Sample	119	102	97	107
LCS 240-202688/4	Lab Control Sample	95	114	104	106
LCS 240-202894/4	Lab Control Sample	90	93	100	94
MB 240-202132/6	Method Blank	115	97	96	107
MB 240-202688/6	Method Blank	98	103	95	101
MB 240-202894/6	Method Blank	96	79	91	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-202132/6
Matrix: Water
Analysis Batch: 202132

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/15/15 23:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/15/15 23:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/15/15 23:10	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/15/15 23:10	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/15/15 23:10	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/15/15 23:10	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/15/15 23:10	1
2-Hexanone	10	U	10	0.48	ug/L			10/15/15 23:10	1
Acetone	10	U	10	0.94	ug/L			10/15/15 23:10	1
Benzene	1.0	U	1.0	0.35	ug/L			10/15/15 23:10	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/15/15 23:10	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/15/15 23:10	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/15/15 23:10	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/15/15 23:10	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/15/15 23:10	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/15/15 23:10	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/15/15 23:10	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/15/15 23:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/15/15 23:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/15/15 23:10	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/15/15 23:10	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/15/15 23:10	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/15/15 23:10	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/15/15 23:10	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/15/15 23:10	1
Styrene	1.0	U	1.0	0.45	ug/L			10/15/15 23:10	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/15/15 23:10	1
Toluene	1.0	U	1.0	0.23	ug/L			10/15/15 23:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/15/15 23:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/15/15 23:10	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/15/15 23:10	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/15/15 23:10	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/15/15 23:10	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/15/15 23:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*78 - 125*		*10/15/15 23:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*61 - 120*		*10/15/15 23:10*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/15/15 23:10*	*1*
Dibromofluoromethane (Surr)	*107*		*79 - 120*		*10/15/15 23:10*	*1*

Lab Sample ID: LCS 240-202132/4
Matrix: Water
Analysis Batch: 202132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			10.0	12.8	*	ug/L		128	77 - 123		
1,1,2,2-Tetrachloroethane			10.0	9.50		ug/L		95	71 - 123		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-202132/4
Matrix: Water
Analysis Batch: 202132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	80 - 120
1,1-Dichloroethane	10.0	11.0		ug/L		110	79 - 125
1,1-Dichloroethene	10.0	10.9		ug/L		109	76 - 124
1,2-Dichloroethane	10.0	12.6	*	ug/L		126	80 - 120
1,2-Dichloropropane	10.0	11.2		ug/L		112	78 - 124
2-Hexanone	20.0	21.3		ug/L		106	55 - 141
Acetone	20.0	18.9		ug/L		94	34 - 148
Benzene	10.0	10.2		ug/L		102	80 - 120
Bromoform	10.0	9.69		ug/L		97	56 - 122
Bromomethane	10.0	8.39		ug/L		84	38 - 132
Carbon disulfide	10.0	9.95		ug/L		99	65 - 144
Carbon tetrachloride	10.0	13.9	*	ug/L		139	77 - 131
Chlorobenzene	10.0	10.2		ug/L		102	80 - 120
Chloroethane	10.0	6.61		ug/L		66	36 - 126
Chloroform	10.0	11.7		ug/L		117	80 - 120
Chloromethane	10.0	11.5		ug/L		115	48 - 133
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	79 - 120
cis-1,3-Dichloropropene	10.0	10.5		ug/L		105	74 - 126
Dichlorobromomethane	10.0	11.3		ug/L		113	80 - 120
Ethylbenzene	10.0	10.3		ug/L		103	80 - 120
m-Xylene & p-Xylene	10.0	10.4		ug/L		104	80 - 120
2-Butanone (MEK)	20.0	21.4		ug/L		107	56 - 138
4-Methyl-2-pentanone (MIBK)	20.0	23.1		ug/L		115	64 - 135
Methylene Chloride	10.0	9.65		ug/L		96	77 - 129
o-Xylene	10.0	10.3		ug/L		103	80 - 120
Styrene	10.0	9.30		ug/L		93	76 - 122
Tetrachloroethene	10.0	11.2		ug/L		112	78 - 121
Toluene	10.0	10.2		ug/L		102	80 - 120
trans-1,2-Dichloroethene	10.0	11.0		ug/L		110	80 - 124
trans-1,3-Dichloropropene	10.0	11.1		ug/L		111	75 - 131
Trichloroethene	10.0	10.8		ug/L		108	80 - 121
Vinyl chloride	10.0	10.8		ug/L		108	52 - 121
Xylenes, Total	20.0	20.7		ug/L		104	80 - 120
Chlorodibromomethane	10.0	11.1		ug/L		111	74 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*119*		*78 - 125*
4-Bromofluorobenzene (Surr)	*102*		*61 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*79 - 120*

Lab Sample ID: MB 240-202688/6
Matrix: Water
Analysis Batch: 202688

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/20/15 10:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/20/15 10:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-202688/6
Matrix: Water
Analysis Batch: 202688

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/20/15 10:50	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/20/15 10:50	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/20/15 10:50	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/20/15 10:50	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/20/15 10:50	1
2-Hexanone	10	U	10	0.48	ug/L			10/20/15 10:50	1
Acetone	10	U	10	0.94	ug/L			10/20/15 10:50	1
Benzene	1.0	U	1.0	0.35	ug/L			10/20/15 10:50	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/20/15 10:50	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/20/15 10:50	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/20/15 10:50	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/20/15 10:50	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/20/15 10:50	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/20/15 10:50	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/20/15 10:50	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/20/15 10:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/20/15 10:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/20/15 10:50	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/20/15 10:50	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/20/15 10:50	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/20/15 10:50	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/20/15 10:50	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/20/15 10:50	1
Styrene	1.0	U	1.0	0.45	ug/L			10/20/15 10:50	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/20/15 10:50	1
Toluene	1.0	U	1.0	0.23	ug/L			10/20/15 10:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/20/15 10:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/20/15 10:50	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/20/15 10:50	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/20/15 10:50	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/20/15 10:50	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/20/15 10:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*78 - 125*		*10/20/15 10:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*61 - 120*		*10/20/15 10:50*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/20/15 10:50*	*1*
Dibromofluoromethane (Surr)	*101*		*79 - 120*		*10/20/15 10:50*	*1*

Lab Sample ID: LCS 240-202688/4
Matrix: Water
Analysis Batch: 202688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	11.1		ug/L		111	77 - 123
1,1,2,2-Tetrachloroethane	10.0	9.36		ug/L		94	71 - 123
1,1,2-Trichloroethane	10.0	9.38		ug/L		94	80 - 120
1,1-Dichloroethane	10.0	11.3		ug/L		113	79 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-202688/4
Matrix: Water
Analysis Batch: 202688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	10.3		ug/L		103	76 - 124
1,2-Dichloroethane	10.0	10.3		ug/L		103	80 - 120
1,2-Dichloropropane	10.0	10.3		ug/L		103	78 - 124
2-Hexanone	20.0	18.2		ug/L		91	55 - 141
Acetone	20.0	21.5		ug/L		108	34 - 148
Benzene	10.0	10.4		ug/L		104	80 - 120
Bromoform	10.0	8.50		ug/L		85	56 - 122
Bromomethane	10.0	11.4		ug/L		114	38 - 132
Carbon disulfide	10.0	10.2		ug/L		102	65 - 144
Carbon tetrachloride	10.0	11.0		ug/L		110	77 - 131
Chlorobenzene	10.0	9.63		ug/L		96	80 - 120
Chloroethane	10.0	10.4		ug/L		104	36 - 126
Chloroform	10.0	11.0		ug/L		110	80 - 120
Chloromethane	10.0	10.2		ug/L		102	48 - 133
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	79 - 120
cis-1,3-Dichloropropene	10.0	7.80		ug/L		78	74 - 126
Dichlorobromomethane	10.0	9.67		ug/L		97	80 - 120
Ethylbenzene	10.0	10.3		ug/L		103	80 - 120
m-Xylene & p-Xylene	10.0	10.5		ug/L		105	80 - 120
2-Butanone (MEK)	20.0	19.8		ug/L		99	56 - 138
4-Methyl-2-pentanone (MIBK)	20.0	19.1		ug/L		95	64 - 135
Methylene Chloride	10.0	10.3		ug/L		103	77 - 129
o-Xylene	10.0	10.9		ug/L		109	80 - 120
Styrene	10.0	9.90		ug/L		99	76 - 122
Tetrachloroethene	10.0	9.68		ug/L		97	78 - 121
Toluene	10.0	10.3		ug/L		103	80 - 120
trans-1,2-Dichloroethene	10.0	11.2		ug/L		112	80 - 124
trans-1,3-Dichloropropene	10.0	8.56		ug/L		86	75 - 131
Trichloroethene	10.0	10.4		ug/L		104	80 - 121
Vinyl chloride	10.0	10.2		ug/L		102	52 - 121
Xylenes, Total	20.0	21.4		ug/L		107	80 - 120
Chlorodibromomethane	10.0	7.84		ug/L		78	74 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*78 - 125*
4-Bromofluorobenzene (Surr)	*114*		*61 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*79 - 120*

Lab Sample ID: MB 240-202894/6
Matrix: Water
Analysis Batch: 202894

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/21/15 13:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/21/15 13:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/21/15 13:18	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/21/15 13:18	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-202894/6
Matrix: Water
Analysis Batch: 202894

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/21/15 13:18	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/21/15 13:18	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/21/15 13:18	1
2-Hexanone	10	U	10	0.48	ug/L			10/21/15 13:18	1
Acetone	10	U	10	0.94	ug/L			10/21/15 13:18	1
Benzene	1.0	U	1.0	0.35	ug/L			10/21/15 13:18	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/21/15 13:18	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/21/15 13:18	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/21/15 13:18	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/21/15 13:18	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/21/15 13:18	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/21/15 13:18	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/21/15 13:18	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/21/15 13:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/21/15 13:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/21/15 13:18	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/21/15 13:18	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/21/15 13:18	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/21/15 13:18	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/21/15 13:18	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/21/15 13:18	1
Styrene	1.0	U	1.0	0.45	ug/L			10/21/15 13:18	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/21/15 13:18	1
Toluene	1.0	U	1.0	0.23	ug/L			10/21/15 13:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/21/15 13:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/21/15 13:18	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/21/15 13:18	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/21/15 13:18	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/21/15 13:18	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/21/15 13:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*78 - 125*		*10/21/15 13:18*	*1*
4-Bromofluorobenzene (Surr)	*79*		*61 - 120*		*10/21/15 13:18*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/21/15 13:18*	*1*
Dibromofluoromethane (Surr)	*99*		*79 - 120*		*10/21/15 13:18*	*1*

Lab Sample ID: LCS 240-202894/4
Matrix: Water
Analysis Batch: 202894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	9.75		ug/L		98	77 - 123
1,1,2,2-Tetrachloroethane	10.0	8.55		ug/L		85	71 - 123
1,1,2-Trichloroethane	10.0	9.81		ug/L		98	80 - 120
1,1-Dichloroethane	10.0	9.80		ug/L		98	79 - 125
1,1-Dichloroethene	10.0	9.77		ug/L		98	76 - 124
1,2-Dichloroethane	10.0	9.29		ug/L		93	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-202894/4
Matrix: Water
Analysis Batch: 202894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	10.0	9.73		ug/L		97	78 - 124
2-Hexanone	20.0	20.6		ug/L		103	55 - 141
Acetone	20.0	17.9		ug/L		89	34 - 148
Benzene	10.0	9.63		ug/L		96	80 - 120
Bromoform	10.0	9.17		ug/L		92	56 - 122
Bromomethane	10.0	8.75		ug/L		87	38 - 132
Carbon disulfide	10.0	9.74		ug/L		97	65 - 144
Carbon tetrachloride	10.0	10.1		ug/L		101	77 - 131
Chlorobenzene	10.0	9.83		ug/L		98	80 - 120
Chloroethane	10.0	8.69		ug/L		87	36 - 126
Chloroform	10.0	9.57		ug/L		96	80 - 120
Chloromethane	10.0	9.99		ug/L		100	48 - 133
cis-1,2-Dichloroethene	10.0	9.52		ug/L		95	79 - 120
cis-1,3-Dichloropropene	10.0	9.20		ug/L		92	74 - 126
Dichlorobromomethane	10.0	8.97		ug/L		90	80 - 120
Ethylbenzene	10.0	9.62		ug/L		96	80 - 120
m-Xylene & p-Xylene	10.0	10.1		ug/L		101	80 - 120
2-Butanone (MEK)	20.0	18.9		ug/L		94	56 - 138
4-Methyl-2-pentanone (MIBK)	20.0	19.5		ug/L		98	64 - 135
Methylene Chloride	10.0	9.11		ug/L		91	77 - 129
o-Xylene	10.0	9.78		ug/L		98	80 - 120
Styrene	10.0	9.72		ug/L		97	76 - 122
Tetrachloroethene	10.0	10.9		ug/L		109	78 - 121
Toluene	10.0	9.89		ug/L		99	80 - 120
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	80 - 124
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	75 - 131
Trichloroethene	10.0	9.59		ug/L		96	80 - 121
Vinyl chloride	10.0	8.96		ug/L		90	52 - 121
Xylenes, Total	20.0	19.9		ug/L		99	80 - 120
Chlorodibromomethane	10.0	9.34		ug/L		93	74 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*78 - 125*
4-Bromofluorobenzene (Surr)	*93*		*61 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*79 - 120*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56509-1

GC/MS VOA

Analysis Batch: 202132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56509-1	GW-100815-TP-001	Total/NA	Water	8260B	
240-56509-2	RB-100815-TP-001	Total/NA	Water	8260B	
240-56509-3	GW-100815-TP-002	Total/NA	Water	8260B	
240-56509-4	GW-100815-TP-003	Total/NA	Water	8260B	
240-56509-5	GW-100815-TP-004	Total/NA	Water	8260B	
LCS 240-202132/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-202132/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 202688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56509-6	GW-100815-TP-005	Total/NA	Water	8260B	
240-56509-7	GW-100815-TP-006	Total/NA	Water	8260B	
240-56509-8	TB-100815-TP-001	Total/NA	Water	8260B	
240-56509-9	GW-100915-TP-007	Total/NA	Water	8260B	
240-56509-10	GW-100915-TP-008	Total/NA	Water	8260B	
240-56509-11	GW-100915-TP-009	Total/NA	Water	8260B	
240-56509-12	GW-100915-TP-010	Total/NA	Water	8260B	
240-56509-13	GW-100915-TP-011	Total/NA	Water	8260B	
240-56509-14	GW-100915-TP-012	Total/NA	Water	8260B	
240-56509-15	GW-101215-TP-013	Total/NA	Water	8260B	
LCS 240-202688/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-202688/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 202894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56509-16	RB-101215-TP-002	Total/NA	Water	8260B	
240-56509-17	GW-101215-TP-014	Total/NA	Water	8260B	
240-56509-18	GW-101215-TP-015	Total/NA	Water	8260B	
240-56509-19	GW-101215-TP-016	Total/NA	Water	8260B	
240-56509-20	GW-101215-TP-017	Total/NA	Water	8260B	
240-56509-21	GW-101215-TP-018	Total/NA	Water	8260B	
240-56509-22	GW-101215-TP-019	Total/NA	Water	8260B	
240-56509-23	GW-101215-TP-020	Total/NA	Water	8260B	
LCS 240-202894/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-202894/6	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56509-1

Client Sample ID: GW-100815-TP-001
Lab Sample ID: 240-56509-1
Date Collected: 10/08/15 11:27
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1.67	202132	10/16/15 08:07	LRW	TAL CAN

Client Sample ID: RB-100815-TP-001
Lab Sample ID: 240-56509-2
Date Collected: 10/08/15 11:35
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202132	10/16/15 03:38	LRW	TAL CAN

Client Sample ID: GW-100815-TP-002
Lab Sample ID: 240-56509-3
Date Collected: 10/08/15 12:47
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202132	10/16/15 04:00	LRW	TAL CAN

Client Sample ID: GW-100815-TP-003
Lab Sample ID: 240-56509-4
Date Collected: 10/08/15 12:49
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202132	10/16/15 04:22	LRW	TAL CAN

Client Sample ID: GW-100815-TP-004
Lab Sample ID: 240-56509-5
Date Collected: 10/08/15 13:40
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202132	10/16/15 04:45	LRW	TAL CAN

Client Sample ID: GW-100815-TP-005
Lab Sample ID: 240-56509-6
Date Collected: 10/08/15 14:32
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	202688	10/20/15 15:38	LEE	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56509-1

Client Sample ID: GW-100815-TP-006
Lab Sample ID: 240-56509-7
Date Collected: 10/08/15 15:18
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		8	202688	10/20/15 16:01	LEE	TAL CAN

Client Sample ID: TB-100815-TP-001
Lab Sample ID: 240-56509-8
Date Collected: 10/08/15 15:45
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202688	10/20/15 16:24	LEE	TAL CAN

Client Sample ID: GW-100915-TP-007
Lab Sample ID: 240-56509-9
Date Collected: 10/09/15 09:35
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	202688	10/20/15 16:46	LEE	TAL CAN

Client Sample ID: GW-100915-TP-008
Lab Sample ID: 240-56509-10
Date Collected: 10/09/15 10:37
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202688	10/20/15 17:09	LEE	TAL CAN

Client Sample ID: GW-100915-TP-009
Lab Sample ID: 240-56509-11
Date Collected: 10/09/15 11:23
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202688	10/20/15 17:32	LEE	TAL CAN

Client Sample ID: GW-100915-TP-010
Lab Sample ID: 240-56509-12
Date Collected: 10/09/15 11:59
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	202688	10/20/15 17:54	LEE	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56509-1

Client Sample ID: GW-100915-TP-011
Lab Sample ID: 240-56509-13
Date Collected: 10/09/15 12:42
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202688	10/20/15 18:17	LEE	TAL CAN

Client Sample ID: GW-100915-TP-012
Lab Sample ID: 240-56509-14
Date Collected: 10/09/15 14:30
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202688	10/20/15 18:40	LEE	TAL CAN

Client Sample ID: GW-101215-TP-013
Lab Sample ID: 240-56509-15
Date Collected: 10/12/15 12:07
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		40	202688	10/20/15 19:02	LEE	TAL CAN

Client Sample ID: RB-101215-TP-002
Lab Sample ID: 240-56509-16
Date Collected: 10/12/15 12:15
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202894	10/21/15 17:01	RJQ	TAL CAN

Client Sample ID: GW-101215-TP-014
Lab Sample ID: 240-56509-17
Date Collected: 10/12/15 12:58
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		333.33	202894	10/21/15 17:26	RJQ	TAL CAN

Client Sample ID: GW-101215-TP-015
Lab Sample ID: 240-56509-18
Date Collected: 10/12/15 13:00
Matrix: Water
Date Received: 10/13/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		250	202894	10/21/15 17:51	RJQ	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56509-1

Client Sample ID: GW-101215-TP-016
Date Collected: 10/12/15 13:42
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		166.67	202894	10/21/15 18:16	RJQ	TAL CAN

Client Sample ID: GW-101215-TP-017
Date Collected: 10/12/15 14:22
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202894	10/21/15 18:40	RJQ	TAL CAN

Client Sample ID: GW-101215-TP-018
Date Collected: 10/12/15 15:07
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	202894	10/21/15 19:05	RJQ	TAL CAN

Client Sample ID: GW-101215-TP-019
Date Collected: 10/12/15 15:58
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202894	10/21/15 19:30	RJQ	TAL CAN

Client Sample ID: GW-101215-TP-020
Date Collected: 10/12/15 16:40
Date Received: 10/13/15 09:30

Lab Sample ID: 240-56509-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202894	10/21/15 19:55	RJQ	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56509-1

Laboratory: TestAmerica Canton

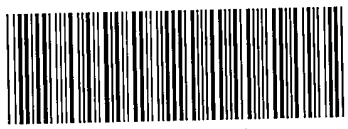
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	10-30-15 *
New York	NELAP	2	10975	03-31-16
Ohio VAP	State Program	5	CL0024	10-31-15 *
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-56509 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

CHAIN OF CUSTODY RECORD

COC NO.: IN- 03573

PAGE 1 OF 2

(See Reverse Side for Instructions)

3.2/C2.7

CONESTOGA-ROVERS & ASSOCIATES
6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

Project No/ Phase/Task Code: 017302/T07/CRA15	Laboratory Name: Test America	Lab Location: North Canton, OH	SSOW ID: 17302-T07
Project Name: Anderson, IN Racer MLK	Lab Contact: Denise Hackler	Lab Quote No: Lab PS#: 24007143	Cooler No: 1 of 1
Project Location: Anderson, IN			Carrier: FedEx
Chemistry Contact: Deborah Andrasko			Airbill No: 6443 7561 2756
Sampler(s): Tim Prager			Date Shipped: 10/12/15

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOCs	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
1	GW-100815-TP-001	10/8/15	11:27	WG	G		3							3	X		
2	RB-100815-TP-001		11:35	WQ			3							3	X		
3	GW-100815-TP-002		12:47	WG			3							3	X		
4	GW-100815-TP-003		12:49	WG			3							3	X		
5	GW-100815-TP-004		13:40	WG			3							3	X		
6	GW-100815-TP-005		14:32	WG			3							3	X		
7	GW-100815-TP-006		15:18	WG			3							3	X		
8	TB-100815-TP-001	10/8/15	15:45	WQ	G		1 HCl pp							1	X		
9	GW-100915-TP-007	10/9/15	9:35	WG	G		3							3	X		
10	GW-100915-TP-008		10:37	WG			3							3	X		
11	GW-100915-TP-009		11:23	WG			3							3	X		
12	GW-100915-TP-010		11:59	WG			3							3	X		
13	GW-100915-TP-011		12:42	WG			3							3	X		
14	GW-100915-TP-012	10/9/15	14:30	WG	G		3							3	X		
15																	

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 42

All Samples in Cooler must be on COC

Notes/ Special Requirements: 40

	RELINQUISHED BY	COMPANY	DATE	TIME		RECEIVED BY	COMPANY	DATE	TIME
1.		GHD	10/12/15	1730	1.		TA-Canton	10/13/15	930
2.					2.				
3.					3.				

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

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10/22/2015

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN-03574
PAGE 2 OF 2
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302/T07/CRA15	**Laboratory Name:** Test America	**Lab Location:** North Canton, OH	**SSOW ID:** 17302-T07
Project Name: MLK - Racer	**Lab Contact:** Denise Heckler	**Lab Quote No:** Lab PS#: 24007143	**Cooler No:** 1 of 1
Project Location: Anderson, IN			**Carrier:** FedEx
Chemistry Contact: Deborah Androsko			**Airbill No:** 6443 7561 2756
Sampler(s): Tim Ranger			**Date Shipped:** 10/12/15

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOC										MS/MSD Request	Comments/ Special Instructions:
1	GW-101215-TP-013	10/12/15	12:07	WG	G		3							3	X											
2	RB-101215-TP-002		12:15	WQ			3							3	X											
3	GW-101215-TP-014		12:58	WG			3							3	X											
4	GW-101215-TP-015		13:00	WG			3							3	X											
5	GW-101215-TP-016		13:42	WG			3							3	X											
6	GW-101215-TP-017		14:22	WG			3							3	X											
7	GW-101215-TP-018		15:07	WG			3							3	X											
8	GW-101215-TP-019	↓	15:58	WG	↓		3							3	X											
9	GW-101215-TP-020	10/12/15	16:40	WG	G		3							3	X											
10																										
11																										
12																										
13																										
14																										
15																										

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 27

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	GHD	10/12/15	1730	1.	TA-Canton	10/13/15	930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

Page 47 of 48

10/22/2015

TestAmerica Canton Sample Receipt Form/Narrative Login # : 50809
Canton Facility

Client GHD Site Name

Cooler Received on 10/13/15 Opened on 10/13/15

Cooler unpacked by:

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

~~IR GUN# A (CF +1.0 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. 1.7 °C

☐ See Multiple Cooler Form

2.	Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
	-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
	-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
3.	Shippers' packing slip attached to the cooler(s)?	Yes	No
4.	Did custody papers accompany the sample(s)?	Yes	No
5.	Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6.	Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7.	Did all bottles arrive in good condition (Unbroken)?	Yes	No
8.	Could all bottle labels be reconciled with the COC?	Yes	No
9.	Were correct bottle(s) used for the test(s) indicated?	Yes	No
10.	Sufficient quantity received to perform indicated analyses?	Yes	No
11.	Were sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC554612
12.	Were VOAs on the COC?	Yes	No
13.	Were air bubbles >6 mm in any VOA vials?	Yes	No NA
14.	Was a trip blank present in the cooler(s)? Trip Blank Lot # N/A	Yes	No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-56546-1
Client Project/Site: 17302-T07, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
10/25/2015 12:01:26 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-56546-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 17302-T07, RACER Delphi Anderson

Report Number: 240-56546-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 10/14/2015 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

DISSOLVED GASES

Samples GW-101315-TP-021 (240-56546-1), GW-101315-TP-022 (240-56546-2), GW-101315-TP-023 (240-56546-3), GW-101315-TP-024 (240-56546-4), GW-101315-TP-025 (240-56546-5), GW-101315-TP-026 (240-56546-6) and GW-101315-TP-027 (240-56546-8) were analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 10/21/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)

Samples GW-101315-TP-021 (240-56546-1), GW-101315-TP-022 (240-56546-2), GW-101315-TP-023 (240-56546-3), GW-101315-TP-024 (240-56546-4), GW-101315-TP-025 (240-56546-5), GW-101315-TP-026 (240-56546-6) and GW-101315-TP-027 (240-56546-8) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 10/15/2015 and analyzed on 10/16/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 240-56546-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

ALKALINITY
Samples GW-101315-TP-021 (240-56546-1), GW-101315-TP-022 (240-56546-2), GW-101315-TP-023 (240-56546-3), GW-101315-TP-024 (240-56546-4), GW-101315-TP-025 (240-56546-5), GW-101315-TP-026 (240-56546-6) and GW-101315-TP-027 (240-56546-8) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 10/17/2015.

Bicarbonate Alkalinity as CaCO3 was detected in method blank MB 240-202446/52 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HARDNESS
Samples GW-101315-TP-021 (240-56546-1), GW-101315-TP-022 (240-56546-2), GW-101315-TP-023 (240-56546-3), GW-101315-TP-024 (240-56546-4), GW-101315-TP-025 (240-56546-5), GW-101315-TP-026 (240-56546-6) and GW-101315-TP-027 (240-56546-8) were analyzed for hardness in accordance with SM 2340C. The samples were analyzed on 10/16/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS
Samples GW-101315-TP-021 (240-56546-1), GW-101315-TP-022 (240-56546-2), GW-101315-TP-023 (240-56546-3), GW-101315-TP-024 (240-56546-4), GW-101315-TP-025 (240-56546-5), GW-101315-TP-026 (240-56546-6) and GW-101315-TP-027 (240-56546-8) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 10/14/2015 and 10/15/2015.

The laboratory control sample (LCS) for batch analytical batches 240-201800 and 240-201891 recovered outside control limits for the following analytes: Nitrite as N. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS
Samples GW-101315-TP-021 (240-56546-1), GW-101315-TP-022 (240-56546-2), GW-101315-TP-023 (240-56546-3), GW-101315-TP-024 (240-56546-4), GW-101315-TP-025 (240-56546-5), GW-101315-TP-026 (240-56546-6) and GW-101315-TP-027 (240-56546-8) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 10/15/2015 and 10/17/2015.

Chloride and Sulfate failed the recovery criteria high for the MS of sample GW-101315-TP-022MS (240-56546-2) in batch 240-202026.

Sulfate failed the recovery criteria high for the MSD of sample GW-101315-TP-022MSD (240-56546-2) in batch 240-202026.

Sample GW-101315-TP-026 (240-56546-6)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE
Samples GW-101315-TP-021 (240-56546-1), GW-101315-TP-022 (240-56546-2), GW-101315-TP-023 (240-56546-3), GW-101315-TP-024 (240-56546-4), GW-101315-TP-025 (240-56546-5), GW-101315-TP-026 (240-56546-6) and GW-101315-TP-027 (240-56546-8) were analyzed for sulfide in accordance with EPA SW-846 Method 9034. The samples were prepared and analyzed on 10/15/2015 and 10/16/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON
Samples GW-101315-TP-021 (240-56546-1), GW-101315-TP-022 (240-56546-2), GW-101315-TP-023 (240-56546-3),

Job ID: 240-56546-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

GW-101315-TP-024 (240-56546-4), GW-101315-TP-025 (240-56546-5), GW-101315-TP-026 (240-56546-6) and GW-101315-TP-027 (240-56546-8) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 10/16/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED ORGANIC CARBON

Samples GW-101315-TP-021 (240-56546-1), GW-101315-TP-022 (240-56546-2), GW-101315-TP-023 (240-56546-3), GW-101315-TP-024 (240-56546-4), GW-101315-TP-025 (240-56546-5), GW-101315-TP-026 (240-56546-6) and GW-101315-TP-027 (240-56546-8) were analyzed for dissolved organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 10/15/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
2340C-1997	Hardness, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CAN
9060	Organic Carbon, Dissolved (DOC)	SW846	TAL CAN
9060	Organic Carbon, Total (TOC)	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-56546-1	GW-101315-TP-021	Water	10/13/15 10:03	10/14/15 10:00
240-56546-2	GW-101315-TP-022	Water	10/13/15 11:02	10/14/15 10:00
240-56546-3	GW-101315-TP-023	Water	10/13/15 12:12	10/14/15 10:00
240-56546-4	GW-101315-TP-024	Water	10/13/15 13:12	10/14/15 10:00
240-56546-5	GW-101315-TP-025	Water	10/13/15 13:20	10/14/15 10:00
240-56546-6	GW-101315-TP-026	Water	10/13/15 14:17	10/14/15 10:00
240-56546-8	GW-101315-TP-027	Water	10/13/15 15:23	10/14/15 10:00

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-1

Client Sample ID: GW-101315-TP-021 — Lab Sample ID: 240-56546-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.78		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethane	0.31	J	0.50	0.14	ug/L	1		RSK-175	Total/NA
Ethylene	0.25	J	0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	420		15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	310	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	390		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	52		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	75		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.5		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.7		1.0	0.080	mg/L	1		9060	Dissolved

Client Sample ID: GW-101315-TP-022 — Lab Sample ID: 240-56546-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	4.8		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethylene	0.34	J	0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	240		15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	330	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	390		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	47	F1	1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	69	F1	1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.4		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.4		1.0	0.080	mg/L	1		9060	Dissolved

Client Sample ID: GW-101315-TP-023 — Lab Sample ID: 240-56546-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	17		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethane	0.32	J	0.50	0.14	ug/L	1		RSK-175	Total/NA
Ethylene	2.8		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	110		15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	360	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	410		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	51		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	77		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.6		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.7		1.0	0.080	mg/L	1		9060	Dissolved

Client Sample ID: GW-101315-TP-024 — Lab Sample ID: 240-56546-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	11		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethylene	0.99		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	240		15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	370	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	400		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	34		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	69		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	4.3		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.9		1.0	0.080	mg/L	1		9060	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-1

Client Sample ID: GW-101315-TP-025 — Lab Sample ID: 240-56546-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	11		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethylene	1.0		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	230		15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	370	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	400		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	34		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	68		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	2.9		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.9		1.0	0.080	mg/L	1		9060	Dissolved

Client Sample ID: GW-101315-TP-026 — Lab Sample ID: 240-56546-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	5.4		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethylene	1.5		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	130		15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	380	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	410		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	41		5.0	2.0	mg/L	5		300.0	Total/NA
Sulfate	100		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.4		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.6		1.0	0.080	mg/L	1		9060	Dissolved

Client Sample ID: GW-101315-TP-027 — Lab Sample ID: 240-56546-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	14		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethane	3.1		0.50	0.14	ug/L	1		RSK-175	Total/NA
Manganese	140		15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	370	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	430		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	32		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	78		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.3		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.7		1.0	0.080	mg/L	1		9060	Dissolved

This Detection Summary does not include radiochemical test results.

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-101315-TP-021
Date Collected: 10/13/15 10:03
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**0.78**		0.50	0.080	ug/L			10/21/15 21:23	1
Ethane	**0.31**	**J**	0.50	0.14	ug/L			10/21/15 21:23	1
Ethylene	**0.25**	**J**	0.50	0.13	ug/L			10/21/15 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*100*		*66 - 132*		*10/21/15 21:23*	*1*

Client Sample ID: GW-101315-TP-022
Date Collected: 10/13/15 11:02
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**4.8**		0.50	0.080	ug/L			10/21/15 21:39	1
Ethane	0.50	U	0.50	0.14	ug/L			10/21/15 21:39	1
Ethylene	**0.34**	**J**	0.50	0.13	ug/L			10/21/15 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*99*		*66 - 132*		*10/21/15 21:39*	*1*

Client Sample ID: GW-101315-TP-023
Date Collected: 10/13/15 12:12
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**17**		0.50	0.080	ug/L			10/21/15 22:41	1
Ethane	**0.32**	**J**	0.50	0.14	ug/L			10/21/15 22:41	1
Ethylene	**2.8**		0.50	0.13	ug/L			10/21/15 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*99*		*66 - 132*		*10/21/15 22:41*	*1*

Client Sample ID: GW-101315-TP-024
Date Collected: 10/13/15 13:12
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**11**		0.50	0.080	ug/L			10/21/15 22:57	1
Ethane	0.50	U	0.50	0.14	ug/L			10/21/15 22:57	1
Ethylene	**0.99**		0.50	0.13	ug/L			10/21/15 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*98*		*66 - 132*		*10/21/15 22:57*	*1*

Client Sample ID: GW-101315-TP-025
Date Collected: 10/13/15 13:20
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**11**		0.50	0.080	ug/L			10/21/15 23:13	1
Ethane	0.50	U	0.50	0.14	ug/L			10/21/15 23:13	1
Ethylene	**1.0**		0.50	0.13	ug/L			10/21/15 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*99*		*66 - 132*		*10/21/15 23:13*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-101315-TP-026
Date Collected: 10/13/15 14:17
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**5.4**		0.50	0.080	ug/L			10/21/15 23:28	1
Ethane	0.50	U	0.50	0.14	ug/L			10/21/15 23:28	1
Ethylene	**1.5**		0.50	0.13	ug/L			10/21/15 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*96*		*66 - 132*		*10/21/15 23:28*	*1*

Client Sample ID: GW-101315-TP-027
Date Collected: 10/13/15 15:23
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**14**		0.50	0.080	ug/L			10/21/15 23:44	1
Ethane	**3.1**		0.50	0.14	ug/L			10/21/15 23:44	1
Ethylene	0.50	U	0.50	0.13	ug/L			10/21/15 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*97*		*66 - 132*		*10/21/15 23:44*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-101315-TP-021
Date Collected: 10/13/15 10:03
Date Received: 10/14/15 10:00
Lab Sample ID: 240-56546-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	420		15	0.46	ug/L		10/15/15 11:33	10/16/15 18:34	1

Client Sample ID: GW-101315-TP-022
Date Collected: 10/13/15 11:02
Date Received: 10/14/15 10:00
Lab Sample ID: 240-56546-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	240		15	0.46	ug/L		10/15/15 11:33	10/16/15 17:45	1

Client Sample ID: GW-101315-TP-023
Date Collected: 10/13/15 12:12
Date Received: 10/14/15 10:00
Lab Sample ID: 240-56546-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	110		15	0.46	ug/L		10/15/15 11:33	10/16/15 18:38	1

Client Sample ID: GW-101315-TP-024
Date Collected: 10/13/15 13:12
Date Received: 10/14/15 10:00
Lab Sample ID: 240-56546-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	240		15	0.46	ug/L		10/15/15 11:33	10/16/15 18:42	1

Client Sample ID: GW-101315-TP-025
Date Collected: 10/13/15 13:20
Date Received: 10/14/15 10:00
Lab Sample ID: 240-56546-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	230		15	0.46	ug/L		10/15/15 11:33	10/16/15 18:46	1

Client Sample ID: GW-101315-TP-026
Date Collected: 10/13/15 14:17
Date Received: 10/14/15 10:00
Lab Sample ID: 240-56546-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	130		15	0.46	ug/L		10/15/15 11:33	10/16/15 18:50	1

Client Sample ID: GW-101315-TP-027
Date Collected: 10/13/15 15:23
Date Received: 10/14/15 10:00
Lab Sample ID: 240-56546-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	140		15	0.46	ug/L		10/15/15 11:33	10/16/15 18:55	1

General Chemistry

Client Sample ID: GW-101315-TP-021
Date Collected: 10/13/15 10:03
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**310**	**B**	5.0	1.9	mg/L			10/17/15 00:01	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/17/15 00:01	1
Hardness as calcium carbonate	**390**		25	16	mg/L			10/16/15 09:25	1
Chloride	**52**		1.0	0.41	mg/L			10/17/15 07:12	1
Nitrite as N	0.10	U *	0.10	0.038	mg/L			10/14/15 17:59	1
Nitrate as N	0.10	U *	0.10	0.035	mg/L			10/14/15 17:59	1
Sulfate	**75**		1.0	0.13	mg/L			10/17/15 07:12	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/15/15 08:06	10/15/15 13:00	1
Total Organic Carbon	**1.5**		1.0	0.080	mg/L			10/16/15 13:16	1

Client Sample ID: GW-101315-TP-022
Date Collected: 10/13/15 11:02
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**330**	**B**	5.0	1.9	mg/L			10/17/15 00:14	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/17/15 00:14	1
Hardness as calcium carbonate	**390**		25	16	mg/L			10/16/15 09:29	1
Chloride	**47**	**F1**	1.0	0.41	mg/L			10/15/15 09:54	1
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/15/15 09:54	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			10/15/15 09:54	1
Sulfate	**69**	**F1**	1.0	0.13	mg/L			10/15/15 09:54	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/15/15 08:06	10/15/15 13:00	1
Total Organic Carbon	**1.4**		1.0	0.080	mg/L			10/16/15 17:11	1

Client Sample ID: GW-101315-TP-023
Date Collected: 10/13/15 12:12
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**360**	**B**	5.0	1.9	mg/L			10/17/15 01:19	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/17/15 01:19	1
Hardness as calcium carbonate	**410**		25	16	mg/L			10/16/15 09:36	1
Chloride	**51**		1.0	0.41	mg/L			10/17/15 08:12	1
Nitrite as N	0.10	U *	0.10	0.038	mg/L			10/14/15 19:37	1
Nitrate as N	0.10	U *	0.10	0.035	mg/L			10/14/15 19:37	1
Sulfate	**77**		1.0	0.13	mg/L			10/17/15 08:12	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/15/15 08:06	10/15/15 13:00	1
Total Organic Carbon	**1.6**		1.0	0.080	mg/L			10/16/15 14:11	1

Client Sample ID: GW-101315-TP-024
Date Collected: 10/13/15 13:12
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**370**	**B**	5.0	1.9	mg/L			10/17/15 01:45	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/17/15 01:45	1
Hardness as calcium carbonate	**400**		25	16	mg/L			10/16/15 09:38	1
Chloride	**34**		1.0	0.41	mg/L			10/17/15 08:32	1
Nitrite as N	0.10	U *	0.10	0.038	mg/L			10/14/15 19:54	1
Nitrate as N	0.10	U *	0.10	0.035	mg/L			10/14/15 19:54	1
Sulfate	**69**		1.0	0.13	mg/L			10/17/15 08:32	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/15/15 08:06	10/15/15 13:00	1

General Chemistry (Continued)

Client Sample ID: GW-101315-TP-024
Date Collected: 10/13/15 13:12
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**4.3**		1.0	0.080	mg/L			10/16/15 14:47	1

Client Sample ID: GW-101315-TP-025
Date Collected: 10/13/15 13:20
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**370**	**B**	5.0	1.9	mg/L			10/17/15 01:59	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/17/15 01:59	1
Hardness as calcium carbonate	**400**		25	16	mg/L			10/16/15 09:40	1
Chloride	**34**		1.0	0.41	mg/L			10/17/15 08:52	1
Nitrite as N	0.10	U *	0.10	0.038	mg/L			10/14/15 20:10	1
Nitrate as N	0.10	U *	0.10	0.035	mg/L			10/14/15 20:10	1
Sulfate	**68**		1.0	0.13	mg/L			10/17/15 08:52	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/15/15 08:06	10/15/15 13:00	1
Total Organic Carbon	**2.9**		1.0	0.080	mg/L			10/16/15 15:24	1

Client Sample ID: GW-101315-TP-026
Date Collected: 10/13/15 14:17
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**380**	**B**	5.0	1.9	mg/L			10/17/15 02:11	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/17/15 02:11	1
Hardness as calcium carbonate	**410**		25	16	mg/L			10/16/15 09:42	1
Chloride	**41**		5.0	2.0	mg/L			10/17/15 23:52	5
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/15/15 00:01	1
Nitrate as N	0.10	U *	0.10	0.035	mg/L			10/15/15 00:01	1
Sulfate	**100**		1.0	0.13	mg/L			10/15/15 00:01	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/16/15 08:00	10/16/15 11:52	1
Total Organic Carbon	**1.4**		1.0	0.080	mg/L			10/16/15 16:00	1

Client Sample ID: GW-101315-TP-027
Date Collected: 10/13/15 15:23
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**370**	**B**	5.0	1.9	mg/L			10/17/15 02:24	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/17/15 02:24	1
Hardness as calcium carbonate	**430**		25	16	mg/L			10/16/15 09:44	1
Chloride	**32**		1.0	0.41	mg/L			10/17/15 06:52	1
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/15/15 00:19	1
Nitrate as N	0.10	U *	0.10	0.035	mg/L			10/15/15 00:19	1
Sulfate	**78**		1.0	0.13	mg/L			10/15/15 00:19	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/16/15 08:00	10/16/15 11:57	1
Total Organic Carbon	**1.3**		1.0	0.080	mg/L			10/16/15 16:35	1

General Chemistry - Dissolved

Client Sample ID: GW-101315-TP-021
Date Collected: 10/13/15 10:03
Date Received: 10/14/15 10:00
Lab Sample ID: 240-56546-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.7		1.0	0.080	mg/L			10/15/15 10:34	1

Client Sample ID: GW-101315-TP-022
Date Collected: 10/13/15 11:02
Date Received: 10/14/15 10:00
Lab Sample ID: 240-56546-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.4		1.0	0.080	mg/L			10/15/15 09:39	1

Client Sample ID: GW-101315-TP-023
Date Collected: 10/13/15 12:12
Date Received: 10/14/15 10:00
Lab Sample ID: 240-56546-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.7		1.0	0.080	mg/L			10/15/15 11:10	1

Client Sample ID: GW-101315-TP-024
Date Collected: 10/13/15 13:12
Date Received: 10/14/15 10:00
Lab Sample ID: 240-56546-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.9		1.0	0.080	mg/L			10/15/15 11:46	1

Client Sample ID: GW-101315-TP-025
Date Collected: 10/13/15 13:20
Date Received: 10/14/15 10:00
Lab Sample ID: 240-56546-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.9		1.0	0.080	mg/L			10/15/15 12:22	1

Client Sample ID: GW-101315-TP-026
Date Collected: 10/13/15 14:17
Date Received: 10/14/15 10:00
Lab Sample ID: 240-56546-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.6		1.0	0.080	mg/L			10/15/15 13:18	1

Client Sample ID: GW-101315-TP-027
Date Collected: 10/13/15 15:23
Date Received: 10/14/15 10:00
Lab Sample ID: 240-56546-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.7		1.0	0.080	mg/L			10/15/15 13:54	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-1

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	rifluoroet (66-132)
240-56546-1	GW-101315-TP-021	100
240-56546-2	GW-101315-TP-022	99
240-56546-2 MS	GW-101315-TP-022	99
240-56546-2 MSD	GW-101315-TP-022	97
240-56546-3	GW-101315-TP-023	99
240-56546-4	GW-101315-TP-024	98
240-56546-5	GW-101315-TP-025	99
240-56546-6	GW-101315-TP-026	96
240-56546-8	GW-101315-TP-027	97
LCS 240-202977/5	Lab Control Sample	105
MB 240-202977/4	Method Blank	106

Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-202977/4
Matrix: Water
Analysis Batch: 202977

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.50	U	0.50	0.080	ug/L			10/21/15 19:49	1
Ethane	0.50	U	0.50	0.14	ug/L			10/21/15 19:49	1
Ethylene	0.50	U	0.50	0.13	ug/L			10/21/15 19:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*106*		*66 - 132*		*10/21/15 19:49*	*1*

Lab Sample ID: LCS 240-202977/5
Matrix: Water
Analysis Batch: 202977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	199	224		ug/L		113	76 - 120
Ethane	374	406		ug/L		109	80 - 120
Ethylene	349	394		ug/L		113	81 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*105*		*66 - 132*

Lab Sample ID: 240-56546-2 MS
Matrix: Water
Analysis Batch: 202977

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	4.8		199	223		ug/L		110	34 - 153
Ethane	0.50	U	374	388		ug/L		104	61 - 120
Ethylene	0.34	J	349	377		ug/L		108	60 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*99*		*66 - 132*

Lab Sample ID: 240-56546-2 MSD
Matrix: Water
Analysis Batch: 202977

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	4.8		199	221		ug/L		109	34 - 153	1	22
Ethane	0.50	U	374	382		ug/L		102	61 - 120	1	21
Ethylene	0.34	J	349	374		ug/L		107	60 - 120	1	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,1,1-Trifluoroethane	*97*		*66 - 132*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-202081/1-A
Matrix: Water
Analysis Batch: 202379

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 202081

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	0.46	ug/L		10/15/15 11:33	10/16/15 17:37	1

Lab Sample ID: LCS 240-202081/2-A
Matrix: Water
Analysis Batch: 202379

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 202081

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	484		ug/L		97	80 - 120

Lab Sample ID: 240-56546-2 MS
Matrix: Water
Analysis Batch: 202379

Client Sample ID: GW-101315-TP-022
Prep Type: Dissolved
Prep Batch: 202081

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	240		500	707		ug/L		94	75 - 125

Lab Sample ID: 240-56546-2 MSD
Matrix: Water
Analysis Batch: 202379

Client Sample ID: GW-101315-TP-022
Prep Type: Dissolved
Prep Batch: 202081

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	240		500	757		ug/L		104	75 - 125	7	20

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-202446/52
Matrix: Water
Analysis Batch: 202446

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	3.02	J	5.0	1.9	mg/L			10/16/15 23:22	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/16/15 23:22	1

Lab Sample ID: 240-56546-2 DU
Matrix: Water
Analysis Batch: 202446

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	330	B	330		mg/L		0.8	20
Carbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L		NC	20

Lab Sample ID: 240-56546-3 DU
Matrix: Water
Analysis Batch: 202446

Client Sample ID: GW-101315-TP-023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	360	B	364		mg/L		1	20
Carbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L		NC	20

Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-202197/1
Matrix: Water
Analysis Batch: 202197

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	5.0	U	5.0	3.1	mg/L			10/16/15 09:09	1

Lab Sample ID: LCS 240-202197/2
Matrix: Water
Analysis Batch: 202197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	170	165		mg/L		97	88 - 110

Lab Sample ID: 240-56546-2 MS
Matrix: Water
Analysis Batch: 202197

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	390		2000	2370		mg/L		99	87 - 114

Lab Sample ID: 240-56546-2 MSD
Matrix: Water
Analysis Batch: 202197

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hardness as calcium carbonate	390		2000	2410		mg/L		101	87 - 114	2	20

Lab Sample ID: 240-56546-1 DU
Matrix: Water
Analysis Batch: 202197

Client Sample ID: GW-101315-TP-021
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hardness as calcium carbonate	390		402		mg/L		3	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-201799/27
Matrix: Water
Analysis Batch: 201799

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			10/14/15 16:04	1
Sulfate	1.0	U	1.0	0.13	mg/L			10/14/15 16:04	1

Lab Sample ID: MB 240-201800/27
Matrix: Water
Analysis Batch: 201800

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/14/15 16:04	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			10/14/15 16:04	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 240-201800/28
Matrix: Water
Analysis Batch: 201800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.77	*	mg/L		111	90 - 110
Nitrate as N	2.50	2.87	*	mg/L		115	90 - 110

Lab Sample ID: 240-56546-1 MS
Matrix: Water
Analysis Batch: 201800

Client Sample ID: GW-101315-TP-021
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.10	U *	2.50	2.64		mg/L		106	80 - 120
Nitrate as N	0.10	U *	2.50	2.54		mg/L		101	80 - 120

Lab Sample ID: 240-56546-1 MSD
Matrix: Water
Analysis Batch: 201800

Client Sample ID: GW-101315-TP-021
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.10	U *	2.50	2.61		mg/L		104	80 - 120	1	20
Nitrate as N	0.10	U *	2.50	2.49		mg/L		100	80 - 120	2	20

Lab Sample ID: MB 240-201890/25
Matrix: Water
Analysis Batch: 201890

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.13	mg/L			10/14/15 19:25	1

Lab Sample ID: MB 240-201890/3
Matrix: Water
Analysis Batch: 201890

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			10/14/15 09:38	1
Sulfate	1.0	U	1.0	0.13	mg/L			10/14/15 09:38	1

Lab Sample ID: LCS 240-201890/26
Matrix: Water
Analysis Batch: 201890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	53.3		mg/L		107	90 - 110

Lab Sample ID: LCS 240-201890/4
Matrix: Water
Analysis Batch: 201890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	54.0		mg/L		108	90 - 110
Sulfate	50.0	51.2		mg/L		102	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-201891/25
Matrix: Water
Analysis Batch: 201891

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/14/15 19:25	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			10/14/15 19:25	1

Lab Sample ID: MB 240-201891/3
Matrix: Water
Analysis Batch: 201891

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/14/15 09:38	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			10/14/15 09:38	1

Lab Sample ID: LCS 240-201891/26
Matrix: Water
Analysis Batch: 201891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.73		mg/L		109	90 - 110
Nitrate as N	2.50	2.79	*	mg/L		112	90 - 110

Lab Sample ID: LCS 240-201891/4
Matrix: Water
Analysis Batch: 201891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.61		mg/L		104	90 - 110
Nitrate as N	2.50	2.70		mg/L		108	90 - 110

Lab Sample ID: MB 240-202026/3
Matrix: Water
Analysis Batch: 202026

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			10/15/15 09:21	1
Sulfate	1.0	U	1.0	0.13	mg/L			10/15/15 09:21	1

Lab Sample ID: LCS 240-202026/4
Matrix: Water
Analysis Batch: 202026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	54.6		mg/L		109	90 - 110
Sulfate	50.0	50.9		mg/L		102	90 - 110

Lab Sample ID: 240-56546-2 MS
Matrix: Water
Analysis Batch: 202026

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	47	F1	50.0	109	F1	mg/L		123	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-56546-2 MS
Matrix: Water
Analysis Batch: 202026

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	69	F1	50.0	136	F1	mg/L		133	80 - 120

Lab Sample ID: 240-56546-2 MSD
Matrix: Water
Analysis Batch: 202026

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	47	F1	50.0	107		mg/L		119	80 - 120	2	20
Sulfate	69	F1	50.0	131	F1	mg/L		125	80 - 120	3	20

Lab Sample ID: MB 240-202027/3
Matrix: Water
Analysis Batch: 202027

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/15/15 09:21	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			10/15/15 09:21	1

Lab Sample ID: LCS 240-202027/4
Matrix: Water
Analysis Batch: 202027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.50		mg/L		100	90 - 110
Nitrate as N	2.50	2.61		mg/L		104	90 - 110

Lab Sample ID: 240-56546-2 MS
Matrix: Water
Analysis Batch: 202027

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.10	U	2.50	2.81		mg/L		113	80 - 120
Nitrate as N	0.10	U	2.50	2.70		mg/L		108	80 - 120

Lab Sample ID: 240-56546-2 MSD
Matrix: Water
Analysis Batch: 202027

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.10	U	2.50	2.70		mg/L		108	80 - 120	4	20
Nitrate as N	0.10	U	2.50	2.53		mg/L		101	80 - 120	6	20

Lab Sample ID: MB 240-202337/3
Matrix: Water
Analysis Batch: 202337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			10/17/15 01:52	1
Sulfate	1.0	U	1.0	0.13	mg/L			10/17/15 01:52	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-202337/51
Matrix: Water
Analysis Batch: 202337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			10/17/15 17:53	1
Sulfate	1.0	U	1.0	0.13	mg/L			10/17/15 17:53	1

Lab Sample ID: LCS 240-202337/4
Matrix: Water
Analysis Batch: 202337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.4		mg/L		97	90 - 110
Sulfate	50.0	49.5		mg/L		99	90 - 110

Lab Sample ID: LCS 240-202337/52
Matrix: Water
Analysis Batch: 202337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.2		mg/L		96	90 - 110
Sulfate	50.0	49.6		mg/L		99	90 - 110

Lab Sample ID: 240-56546-1 MS
Matrix: Water
Analysis Batch: 202337

Client Sample ID: GW-101315-TP-021
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	52		50.0	101		mg/L		97	80 - 120
Sulfate	75		50.0	125		mg/L		101	80 - 120

Lab Sample ID: 240-56546-1 MSD
Matrix: Water
Analysis Batch: 202337

Client Sample ID: GW-101315-TP-021
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	52		50.0	99.0		mg/L		93	80 - 120	2	20
Sulfate	75		50.0	124		mg/L		98	80 - 120	1	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-202020/1-A
Matrix: Water
Analysis Batch: 202100

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202020

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	0.94	mg/L		10/15/15 08:06	10/15/15 13:00	1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 240-202020/2-A
Matrix: Water
Analysis Batch: 202100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202020

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	8.00	6.53		mg/L		82	70 - 130

Lab Sample ID: 240-56546-2 MS
Matrix: Water
Analysis Batch: 202100

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA
Prep Batch: 202020

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	3.0	U	8.00	5.73		mg/L		72	27 - 124

Lab Sample ID: 240-56546-2 MSD
Matrix: Water
Analysis Batch: 202100

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA
Prep Batch: 202020

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	3.0	U	8.00	6.13		mg/L		77	27 - 124	7	20

Lab Sample ID: MB 240-202207/1-A
Matrix: Water
Analysis Batch: 202282

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	0.94	mg/L		10/16/15 08:00	10/16/15 11:40	1

Lab Sample ID: LCS 240-202207/2-A
Matrix: Water
Analysis Batch: 202282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	8.53	7.73		mg/L		91	70 - 130

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-202354/4
Matrix: Water
Analysis Batch: 202354

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.080	mg/L			10/16/15 10:01	1

Lab Sample ID: LCS 240-202354/6
Matrix: Water
Analysis Batch: 202354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	69.3	69.6		mg/L		100	88 - 115

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LLCS 240-202354/5
Matrix: Water
Analysis Batch: 202354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	6.93	7.20		mg/L		104	88 - 115

Lab Sample ID: 240-56546-2 MS
Matrix: Water
Analysis Batch: 202354

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.4		25.0	27.9		mg/L		106	72 - 136

Lab Sample ID: 240-56546-2 MSD
Matrix: Water
Analysis Batch: 202354

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.4		25.0	27.6		mg/L		105	72 - 136	1	20

Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-202189/4
Matrix: Water
Analysis Batch: 202189

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.0	U	1.0	0.080	mg/L			10/15/15 09:10	1

Lab Sample ID: LCS 240-202189/6
Matrix: Water
Analysis Batch: 202189

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	45.3	45.6		mg/L		101	88 - 115

Lab Sample ID: LLCS 240-202189/5
Matrix: Water
Analysis Batch: 202189

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	4.53	4.68		mg/L		103	88 - 115

Lab Sample ID: 240-56546-2 MS
Matrix: Water
Analysis Batch: 202189

Client Sample ID: GW-101315-TP-022
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	1.4		25.0	26.0		mg/L		98	72 - 136

Method: 9060 - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: 240-56546-2 MSD
Matrix: Water
Analysis Batch: 202189

Client Sample ID: GW-101315-TP-022
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Organic Carbon	1.4		25.0	25.9		mg/L		98	72 - 136	0	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-1

GC VOA

Analysis Batch: 202977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-1	GW-101315-TP-021	Total/NA	Water	RSK-175	
240-56546-2	GW-101315-TP-022	Total/NA	Water	RSK-175	
240-56546-2 MS	GW-101315-TP-022	Total/NA	Water	RSK-175	
240-56546-2 MSD	GW-101315-TP-022	Total/NA	Water	RSK-175	
240-56546-3	GW-101315-TP-023	Total/NA	Water	RSK-175	
240-56546-4	GW-101315-TP-024	Total/NA	Water	RSK-175	
240-56546-5	GW-101315-TP-025	Total/NA	Water	RSK-175	
240-56546-6	GW-101315-TP-026	Total/NA	Water	RSK-175	
240-56546-8	GW-101315-TP-027	Total/NA	Water	RSK-175	
LCS 240-202977/5	Lab Control Sample	Total/NA	Water	RSK-175	
MB 240-202977/4	Method Blank	Total/NA	Water	RSK-175	

Metals

Prep Batch: 202081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-1	GW-101315-TP-021	Dissolved	Water	3005A	
240-56546-2	GW-101315-TP-022	Dissolved	Water	3005A	
240-56546-2 MS	GW-101315-TP-022	Dissolved	Water	3005A	
240-56546-2 MSD	GW-101315-TP-022	Dissolved	Water	3005A	
240-56546-3	GW-101315-TP-023	Dissolved	Water	3005A	
240-56546-4	GW-101315-TP-024	Dissolved	Water	3005A	
240-56546-5	GW-101315-TP-025	Dissolved	Water	3005A	
240-56546-6	GW-101315-TP-026	Dissolved	Water	3005A	
240-56546-8	GW-101315-TP-027	Dissolved	Water	3005A	
LCS 240-202081/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-202081/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 202379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-1	GW-101315-TP-021	Dissolved	Water	6010B	202081
240-56546-2	GW-101315-TP-022	Dissolved	Water	6010B	202081
240-56546-2 MS	GW-101315-TP-022	Dissolved	Water	6010B	202081
240-56546-2 MSD	GW-101315-TP-022	Dissolved	Water	6010B	202081
240-56546-3	GW-101315-TP-023	Dissolved	Water	6010B	202081
240-56546-4	GW-101315-TP-024	Dissolved	Water	6010B	202081
240-56546-5	GW-101315-TP-025	Dissolved	Water	6010B	202081
240-56546-6	GW-101315-TP-026	Dissolved	Water	6010B	202081
240-56546-8	GW-101315-TP-027	Dissolved	Water	6010B	202081
LCS 240-202081/2-A	Lab Control Sample	Total Recoverable	Water	6010B	202081
MB 240-202081/1-A	Method Blank	Total Recoverable	Water	6010B	202081

General Chemistry

Analysis Batch: 201799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-201799/27	Method Blank	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 201800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-1	GW-101315-TP-021	Total/NA	Water	300.0	
240-56546-1 MS	GW-101315-TP-021	Total/NA	Water	300.0	
240-56546-1 MSD	GW-101315-TP-021	Total/NA	Water	300.0	
240-56546-3	GW-101315-TP-023	Total/NA	Water	300.0	
240-56546-4	GW-101315-TP-024	Total/NA	Water	300.0	
240-56546-5	GW-101315-TP-025	Total/NA	Water	300.0	
LCS 240-201800/28	Lab Control Sample	Total/NA	Water	300.0	
MB 240-201800/27	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 201890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-6	GW-101315-TP-026	Total/NA	Water	300.0	
240-56546-8	GW-101315-TP-027	Total/NA	Water	300.0	
LCS 240-201890/26	Lab Control Sample	Total/NA	Water	300.0	
LCS 240-201890/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-201890/25	Method Blank	Total/NA	Water	300.0	
MB 240-201890/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 201891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-6	GW-101315-TP-026	Total/NA	Water	300.0	
240-56546-8	GW-101315-TP-027	Total/NA	Water	300.0	
LCS 240-201891/26	Lab Control Sample	Total/NA	Water	300.0	
LCS 240-201891/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-201891/25	Method Blank	Total/NA	Water	300.0	
MB 240-201891/3	Method Blank	Total/NA	Water	300.0	

Prep Batch: 202020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-1	GW-101315-TP-021	Total/NA	Water	9030B	
240-56546-2	GW-101315-TP-022	Total/NA	Water	9030B	
240-56546-2 MS	GW-101315-TP-022	Total/NA	Water	9030B	
240-56546-2 MSD	GW-101315-TP-022	Total/NA	Water	9030B	
240-56546-3	GW-101315-TP-023	Total/NA	Water	9030B	
240-56546-4	GW-101315-TP-024	Total/NA	Water	9030B	
240-56546-5	GW-101315-TP-025	Total/NA	Water	9030B	
LCS 240-202020/2-A	Lab Control Sample	Total/NA	Water	9030B	
MB 240-202020/1-A	Method Blank	Total/NA	Water	9030B	

Analysis Batch: 202026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-2	GW-101315-TP-022	Total/NA	Water	300.0	
240-56546-2 MS	GW-101315-TP-022	Total/NA	Water	300.0	
240-56546-2 MSD	GW-101315-TP-022	Total/NA	Water	300.0	
LCS 240-202026/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-202026/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 202027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-2	GW-101315-TP-022	Total/NA	Water	300.0	
240-56546-2 MS	GW-101315-TP-022	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 202027 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-2 MSD	GW-101315-TP-022	Total/NA	Water	300.0	
LCS 240-202027/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-202027/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 202100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-1	GW-101315-TP-021	Total/NA	Water	9034	202020
240-56546-2	GW-101315-TP-022	Total/NA	Water	9034	202020
240-56546-2 MS	GW-101315-TP-022	Total/NA	Water	9034	202020
240-56546-2 MSD	GW-101315-TP-022	Total/NA	Water	9034	202020
240-56546-3	GW-101315-TP-023	Total/NA	Water	9034	202020
240-56546-4	GW-101315-TP-024	Total/NA	Water	9034	202020
240-56546-5	GW-101315-TP-025	Total/NA	Water	9034	202020
LCS 240-202020/2-A	Lab Control Sample	Total/NA	Water	9034	202020
MB 240-202020/1-A	Method Blank	Total/NA	Water	9034	202020

Analysis Batch: 202189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-1	GW-101315-TP-021	Dissolved	Water	9060	
240-56546-2	GW-101315-TP-022	Dissolved	Water	9060	
240-56546-2 MS	GW-101315-TP-022	Dissolved	Water	9060	
240-56546-2 MSD	GW-101315-TP-022	Dissolved	Water	9060	
240-56546-3	GW-101315-TP-023	Dissolved	Water	9060	
240-56546-4	GW-101315-TP-024	Dissolved	Water	9060	
240-56546-5	GW-101315-TP-025	Dissolved	Water	9060	
240-56546-6	GW-101315-TP-026	Dissolved	Water	9060	
240-56546-8	GW-101315-TP-027	Dissolved	Water	9060	
LCS 240-202189/6	Lab Control Sample	Dissolved	Water	9060	
LLCS 240-202189/5	Lab Control Sample	Dissolved	Water	9060	
MB 240-202189/4	Method Blank	Dissolved	Water	9060	

Analysis Batch: 202197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-1	GW-101315-TP-021	Total/NA	Water	2340C-1997	
240-56546-1 DU	GW-101315-TP-021	Total/NA	Water	2340C-1997	
240-56546-2	GW-101315-TP-022	Total/NA	Water	2340C-1997	
240-56546-2 MS	GW-101315-TP-022	Total/NA	Water	2340C-1997	
240-56546-2 MSD	GW-101315-TP-022	Total/NA	Water	2340C-1997	
240-56546-3	GW-101315-TP-023	Total/NA	Water	2340C-1997	
240-56546-4	GW-101315-TP-024	Total/NA	Water	2340C-1997	
240-56546-5	GW-101315-TP-025	Total/NA	Water	2340C-1997	
240-56546-6	GW-101315-TP-026	Total/NA	Water	2340C-1997	
240-56546-8	GW-101315-TP-027	Total/NA	Water	2340C-1997	
LCS 240-202197/2	Lab Control Sample	Total/NA	Water	2340C-1997	
MB 240-202197/1	Method Blank	Total/NA	Water	2340C-1997	

Prep Batch: 202207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-6	GW-101315-TP-026	Total/NA	Water	9030B	
240-56546-8	GW-101315-TP-027	Total/NA	Water	9030B	
LCS 240-202207/2-A	Lab Control Sample	Total/NA	Water	9030B	

General Chemistry (Continued)

Prep Batch: 202207 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-202207/1-A	Method Blank	Total/NA	Water	9030B	

Analysis Batch: 202282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-6	GW-101315-TP-026	Total/NA	Water	9034	202207
240-56546-8	GW-101315-TP-027	Total/NA	Water	9034	202207
LCS 240-202207/2-A	Lab Control Sample	Total/NA	Water	9034	202207
MB 240-202207/1-A	Method Blank	Total/NA	Water	9034	202207

Analysis Batch: 202337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-1	GW-101315-TP-021	Total/NA	Water	300.0	
240-56546-1 MS	GW-101315-TP-021	Total/NA	Water	300.0	
240-56546-1 MSD	GW-101315-TP-021	Total/NA	Water	300.0	
240-56546-3	GW-101315-TP-023	Total/NA	Water	300.0	
240-56546-4	GW-101315-TP-024	Total/NA	Water	300.0	
240-56546-5	GW-101315-TP-025	Total/NA	Water	300.0	
240-56546-6	GW-101315-TP-026	Total/NA	Water	300.0	
240-56546-8	GW-101315-TP-027	Total/NA	Water	300.0	
LCS 240-202337/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 240-202337/52	Lab Control Sample	Total/NA	Water	300.0	
MB 240-202337/3	Method Blank	Total/NA	Water	300.0	
MB 240-202337/51	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 202354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-1	GW-101315-TP-021	Total/NA	Water	9060	
240-56546-2	GW-101315-TP-022	Total/NA	Water	9060	
240-56546-2 MS	GW-101315-TP-022	Total/NA	Water	9060	
240-56546-2 MSD	GW-101315-TP-022	Total/NA	Water	9060	
240-56546-3	GW-101315-TP-023	Total/NA	Water	9060	
240-56546-4	GW-101315-TP-024	Total/NA	Water	9060	
240-56546-5	GW-101315-TP-025	Total/NA	Water	9060	
240-56546-6	GW-101315-TP-026	Total/NA	Water	9060	
240-56546-8	GW-101315-TP-027	Total/NA	Water	9060	
LCS 240-202354/6	Lab Control Sample	Total/NA	Water	9060	
LLCS 240-202354/5	Lab Control Sample	Total/NA	Water	9060	
MB 240-202354/4	Method Blank	Total/NA	Water	9060	

Analysis Batch: 202446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-1	GW-101315-TP-021	Total/NA	Water	2320B-1997	
240-56546-2	GW-101315-TP-022	Total/NA	Water	2320B-1997	
240-56546-2 DU	GW-101315-TP-022	Total/NA	Water	2320B-1997	
240-56546-3	GW-101315-TP-023	Total/NA	Water	2320B-1997	
240-56546-3 DU	GW-101315-TP-023	Total/NA	Water	2320B-1997	
240-56546-4	GW-101315-TP-024	Total/NA	Water	2320B-1997	
240-56546-5	GW-101315-TP-025	Total/NA	Water	2320B-1997	
240-56546-6	GW-101315-TP-026	Total/NA	Water	2320B-1997	
240-56546-8	GW-101315-TP-027	Total/NA	Water	2320B-1997	
MB 240-202446/52	Method Blank	Total/NA	Water	2320B-1997	

Client Sample ID: GW-101315-TP-021

Lab Sample ID: 240-56546-1
Matrix: Water
Date Collected: 10/13/15 10:03
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	202977	10/21/15 21:23	BPM	TAL CAN
Dissolved	Prep	3005A			202081	10/15/15 11:33	DEE	TAL CAN
Dissolved	Analysis	6010B		1	202379	10/16/15 18:34	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	202446	10/17/15 00:01	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	202197	10/16/15 09:25	JAK	TAL CAN
Total/NA	Analysis	300.0		1	201800	10/14/15 17:59	LKG	TAL CAN
Total/NA	Analysis	300.0		1	202337	10/17/15 07:12	LKG	TAL CAN
Total/NA	Prep	9030B			202020	10/15/15 08:06	BLW	TAL CAN
Total/NA	Analysis	9034		1	202100	10/15/15 13:00	BLW	TAL CAN
Dissolved	Analysis	9060		1	202189	10/15/15 10:34	TPH	TAL CAN
Total/NA	Analysis	9060		1	202354	10/16/15 13:16	TPH	TAL CAN

Client Sample ID: GW-101315-TP-022

Lab Sample ID: 240-56546-2
Matrix: Water
Date Collected: 10/13/15 11:02
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	202977	10/21/15 21:39	BPM	TAL CAN
Dissolved	Prep	3005A			202081	10/15/15 11:33	DEE	TAL CAN
Dissolved	Analysis	6010B		1	202379	10/16/15 17:45	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	202446	10/17/15 00:14	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	202197	10/16/15 09:29	JAK	TAL CAN
Total/NA	Analysis	300.0		1	202026	10/15/15 09:54	LKG	TAL CAN
Total/NA	Analysis	300.0		1	202027	10/15/15 09:54	LKG	TAL CAN
Total/NA	Prep	9030B			202020	10/15/15 08:06	BLW	TAL CAN
Total/NA	Analysis	9034		1	202100	10/15/15 13:00	BLW	TAL CAN
Dissolved	Analysis	9060		1	202189	10/15/15 09:39	TPH	TAL CAN
Total/NA	Analysis	9060		1	202354	10/16/15 17:11	TPH	TAL CAN

Client Sample ID: GW-101315-TP-023

Lab Sample ID: 240-56546-3
Matrix: Water
Date Collected: 10/13/15 12:12
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	202977	10/21/15 22:41	BPM	TAL CAN
Dissolved	Prep	3005A			202081	10/15/15 11:33	DEE	TAL CAN
Dissolved	Analysis	6010B		1	202379	10/16/15 18:38	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	202446	10/17/15 01:19	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	202197	10/16/15 09:36	JAK	TAL CAN
Total/NA	Analysis	300.0		1	201800	10/14/15 19:37	LKG	TAL CAN
Total/NA	Analysis	300.0		1	202337	10/17/15 08:12	LKG	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-1

Client Sample ID: GW-101315-TP-023

Lab Sample ID: 240-56546-3
Date Collected: 10/13/15 12:12
Matrix: Water
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			202020	10/15/15 08:06	BLW	TAL CAN
Total/NA	Analysis	9034		1	202100	10/15/15 13:00	BLW	TAL CAN
Dissolved	Analysis	9060		1	202189	10/15/15 11:10	TPH	TAL CAN
Total/NA	Analysis	9060		1	202354	10/16/15 14:11	TPH	TAL CAN

Client Sample ID: GW-101315-TP-024

Lab Sample ID: 240-56546-4
Date Collected: 10/13/15 13:12
Matrix: Water
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	202977	10/21/15 22:57	BPM	TAL CAN
Dissolved	Prep	3005A			202081	10/15/15 11:33	DEE	TAL CAN
Dissolved	Analysis	6010B		1	202379	10/16/15 18:42	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	202446	10/17/15 01:45	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	202197	10/16/15 09:38	JAK	TAL CAN
Total/NA	Analysis	300.0		1	201800	10/14/15 19:54	LKG	TAL CAN
Total/NA	Analysis	300.0		1	202337	10/17/15 08:32	LKG	TAL CAN
Total/NA	Prep	9030B			202020	10/15/15 08:06	BLW	TAL CAN
Total/NA	Analysis	9034		1	202100	10/15/15 13:00	BLW	TAL CAN
Dissolved	Analysis	9060		1	202189	10/15/15 11:46	TPH	TAL CAN
Total/NA	Analysis	9060		1	202354	10/16/15 14:47	TPH	TAL CAN

Client Sample ID: GW-101315-TP-025

Lab Sample ID: 240-56546-5
Date Collected: 10/13/15 13:20
Matrix: Water
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	202977	10/21/15 23:13	BPM	TAL CAN
Dissolved	Prep	3005A			202081	10/15/15 11:33	DEE	TAL CAN
Dissolved	Analysis	6010B		1	202379	10/16/15 18:46	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	202446	10/17/15 01:59	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	202197	10/16/15 09:40	JAK	TAL CAN
Total/NA	Analysis	300.0		1	201800	10/14/15 20:10	LKG	TAL CAN
Total/NA	Analysis	300.0		1	202337	10/17/15 08:52	LKG	TAL CAN
Total/NA	Prep	9030B			202020	10/15/15 08:06	BLW	TAL CAN
Total/NA	Analysis	9034		1	202100	10/15/15 13:00	BLW	TAL CAN
Dissolved	Analysis	9060		1	202189	10/15/15 12:22	TPH	TAL CAN
Total/NA	Analysis	9060		1	202354	10/16/15 15:24	TPH	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-1

Client Sample ID: GW-101315-TP-026

Date Collected: 10/13/15 14:17
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	202977	10/21/15 23:28	BPM	TAL CAN
Dissolved	Prep	3005A			202081	10/15/15 11:33	DEE	TAL CAN
Dissolved	Analysis	6010B		1	202379	10/16/15 18:50	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	202446	10/17/15 02:11	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	202197	10/16/15 09:42	JAK	TAL CAN
Total/NA	Analysis	300.0		1	201890	10/15/15 00:01	LKG	TAL CAN
Total/NA	Analysis	300.0		1	201891	10/15/15 00:01	LKG	TAL CAN
Total/NA	Analysis	300.0		5	202337	10/17/15 23:52	LKG	TAL CAN
Total/NA	Prep	9030B			202207	10/16/15 08:00	BLW	TAL CAN
Total/NA	Analysis	9034		1	202282	10/16/15 11:52	BLW	TAL CAN
Dissolved	Analysis	9060		1	202189	10/15/15 13:18	TPH	TAL CAN
Total/NA	Analysis	9060		1	202354	10/16/15 16:00	TPH	TAL CAN

Client Sample ID: GW-101315-TP-027

Date Collected: 10/13/15 15:23
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	202977	10/21/15 23:44	BPM	TAL CAN
Dissolved	Prep	3005A			202081	10/15/15 11:33	DEE	TAL CAN
Dissolved	Analysis	6010B		1	202379	10/16/15 18:55	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	202446	10/17/15 02:24	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	202197	10/16/15 09:44	JAK	TAL CAN
Total/NA	Analysis	300.0		1	201890	10/15/15 00:19	LKG	TAL CAN
Total/NA	Analysis	300.0		1	201891	10/15/15 00:19	LKG	TAL CAN
Total/NA	Analysis	300.0		1	202337	10/17/15 06:52	LKG	TAL CAN
Total/NA	Prep	9030B			202207	10/16/15 08:00	BLW	TAL CAN
Total/NA	Analysis	9034		1	202282	10/16/15 11:57	BLW	TAL CAN
Dissolved	Analysis	9060		1	202189	10/15/15 13:54	TPH	TAL CAN
Total/NA	Analysis	9060		1	202354	10/16/15 16:35	TPH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-1

Laboratory: TestAmerica Canton

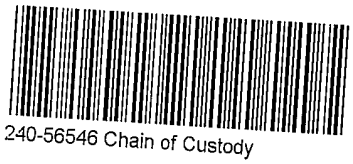
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	10-30-15 *
New York	NELAP	2	10975	03-31-16
Ohio VAP	State Program	5	CL0024	10-31-15 *
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



3.6/C2.1

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 03575
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 17302/T07/CRA15	Laboratory Name: Test America	Lab Location: North Canton, OH	SSOW ID: 17302-T07
Project Name: Racer MCK	Lab Contact: Denise Heckler	Lab Quote No: Lab PO#: 7400714 3	Cooler No: 1 of 2
Project Location: Anderson, IN			Carrier: FedEx
Chemistry Contact: Deb Andraska			Airbill No: 6443 7561 2870
Sampler(s): Tim Prenger			Date Shipped: 10/13/15

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOCs	D,ISS Gases	TOC, DOC*	Sulfide	Chloride, Sulfate	Nitrate, Nitrite	Hardness	Alkalinity, Carbon	D,ISS Manganese*	MS/MSD Request	Comments/ Special Instructions:
1	GW-101315-TP-021	10/13/15	10:03	GW	G		6		4					10	X	X	X								
2	-022		11:02				15		8					23	X	X	X								MS/MSD
3	-023		12:12				6		4					10	X	X	X								
4	-024		13:17				6		4					10	X	X	X								
5	-025		13:20				6		4					10	X	X	X								
6	GW-101315-TP-026		14:17	GW	G	2	6	2	4				1	15	X	X	X	X	X	X	X	X	X		
7	RB-101315-TP-003		14:40	WQ			3							3	X										
8	GW-101315-TP-027		15:23	GW	G	2	6	2	4				1	15	X	X	X	X	X	X	X	X	X		
9	TB-101315-TP-002	10/13/15	16:00	WQ	G		1							1	X										
10																									
11																									* DOC, D,ISS Manganese Field Filtered
12																									
13																									
14																									
15																									

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 97

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	GHD	10/13/15	1700	1. Alex Callen	TA	10/14/15	0900
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

3.6/C2.1

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN-03576
PAGE 1 OF 2
(See Reverse Side for Instructions)

Project No/ Phase/Task Code:	017302/T07/CRA15
Project Name:	Race MLK
Project Location:	Anderson, IN
Chemistry Contact:	Deb Andraska
Sampler(s):	Tim Prunger
Laboratory Name:	Test America
Lab Contact:	Denise Heckler
Lab Location:	North Canton, OH
Lab Quote No:	Lab PS# 24007143
SSOW ID:	17302-T07
Cooler No:	2 of 2
Carrier:	FedEx
Airbill No:	6443 7561 2870
Date Shipped:	10/13/15

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	SAMPLE TYPE: Matrix Code (see back of COC)	SAMPLE TYPE: Grab (G) or Comp (C)	CONTAINER QUANTITY & PRESERVATION: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	ANALYSIS REQUESTED: Sulfide	Chloride, Sulfate	Nitrate, Nitrite	Hardness	Alk. Calc.	D.S. Manganese	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
1	GW-101315-TP-021	10/13/15	10:03	WG	G	2		2					1	5	X	X	X	X	X	X		
2	-022		11:02			4		4					2	10	X	X	X	X	X	X		MS/MSD
3	-023		12:12			2		2					1	5	X	X	X	X	X	X		
4	-024		13:12			2		2					1	5	X	X	X	X	X	X		
5	GW-101315-TP-025	10/13/15	13:20	WG	G	2		2					1	5	X	X	X	X	X	X		
6																						
7																						* D.S. Manganese Field Filtered
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 30

All Samples in Cooler must be on COC

Notes/ Special Requirements:

	RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
1.		GHD	10/13/15	1700		TA	10/14/15	1000
2.								
3.								

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

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10/25/2015

TestAmerica Canton Sample Receipt Form/Narrative Login # : 9V5416
Canton Facility

Client CRA Site Name _____ Cooler unpacked by: Alex Cuter

Cooler Received on 10/14/15 Opened on 10/14/15

FedEx: 1st Grd ~~Exp~~ UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

~~IR GUN# A (CF +1.0 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C~~

~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C~~

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C~~

☐ See Multiple Cooler Form

IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. 3.6 °C Corrected Cooler Temp. 2.1 °C

2.	Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No	
	-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No	NA
	-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No	
3.	Shippers' packing slip attached to the cooler(s)?	Yes	No	
4.	Did custody papers accompany the sample(s)?	Yes	No	
5.	Were the custody papers relinquished & signed in the appropriate place?	Yes	No	
6.	Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No	
7.	Did all bottles arrive in good condition (Unbroken)?	Yes	No	
8.	Could all bottle labels be reconciled with the COC?	Yes	No	
9.	Were correct bottle(s) used for the test(s) indicated?	Yes	No	
10.	Sufficient quantity received to perform indicated analyses?	Yes	No	
11.	Were sample(s) at the correct pH upon receipt?	Yes	No	NA pH Strip Lot# HC554612
12.	Were VOAs on the COC?	Yes	No	
13.	Were air bubbles >6 mm in any VOA vials?	Yes	No	NA
14.	Was a trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No	

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES — Samples processed by: Alex Cuter

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101315-TP-021	240-56546-B-1	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-021	240-56546-D-1	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-021	240-56546-E-1	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101315-TP-022	240-56546-C-2	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-022	240-56546-D-2	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-022	240-56546-G-2	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-022	240-56546-H-2	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-022	240-56546-I-2	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101315-TP-022	240-56546-J-2	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101315-TP-023	240-56546-B-3	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-023	240-56546-D-3	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-023	240-56546-E-3	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101315-TP-024	240-56546-B-4	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-024	240-56546-D-4	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-024	240-56546-E-4	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101315-TP-025	240-56546-B-5	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-025	240-56546-D-5	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-025	240-56546-E-5	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101315-TP-026	240-56546-B-6	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-026	240-56546-D-6	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-026	240-56546-E-6	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101315-TP-027	240-56546-B-8	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-027	240-56546-D-8	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-027	240-56546-E-8	Plastic 1 liter - Zn Acetate and NaO	>9		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-56546-2
Client Project/Site: 17302-T07, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
10/27/2015 9:48:13 AM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-56546-2

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 17302-T07, RACER Delphi Anderson

Report Number: 240-56546-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 10/14/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.1 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GW-101315-TP-021 (240-56546-1), GW-101315-TP-022 (240-56546-2), GW-101315-TP-023 (240-56546-3), GW-101315-TP-024 (240-56546-4), GW-101315-TP-025 (240-56546-5), GW-101315-TP-026 (240-56546-6), RB-101315-TP-003 (240-56546-7), GW-101315-TP-027 (240-56546-8) and TB-101315-TP-002 (240-56546-9) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/21/2015.

Samples GW-101315-TP-021 (240-56546-1)[10X], GW-101315-TP-022 (240-56546-2)[40X], GW-101315-TP-023 (240-56546-3)[250X], GW-101315-TP-024 (240-56546-4)[200X], GW-101315-TP-025 (240-56546-5)[200X], GW-101315-TP-026 (240-56546-6)[83.33X] and GW-101315-TP-027 (240-56546-8)[40X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-56546-1	GW-101315-TP-021	Water	10/13/15 10:03	10/14/15 10:00
240-56546-2	GW-101315-TP-022	Water	10/13/15 11:02	10/14/15 10:00
240-56546-3	GW-101315-TP-023	Water	10/13/15 12:12	10/14/15 10:00
240-56546-4	GW-101315-TP-024	Water	10/13/15 13:12	10/14/15 10:00
240-56546-5	GW-101315-TP-025	Water	10/13/15 13:20	10/14/15 10:00
240-56546-6	GW-101315-TP-026	Water	10/13/15 14:17	10/14/15 10:00
240-56546-7	RB-101315-TP-003	Water	10/13/15 14:40	10/14/15 10:00
240-56546-8	GW-101315-TP-027	Water	10/13/15 15:23	10/14/15 10:00
240-56546-9	TB-101315-TP-002	Water	10/13/15 16:00	10/14/15 10:00

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-2

Client Sample ID: GW-101315-TP-021 — Lab Sample ID: 240-56546-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	16		10	3.0	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	250		10	2.6	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	22		10	3.0	ug/L	10		8260B	Total/NA
Vinyl chloride	30		10	2.9	ug/L	10		8260B	Total/NA

Client Sample ID: GW-101315-TP-022 — Lab Sample ID: 240-56546-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	59		40	12	ug/L	40		8260B	Total/NA
cis-1,2-Dichloroethene	1000		40	10	ug/L	40		8260B	Total/NA
trans-1,2-Dichloroethene	67		40	12	ug/L	40		8260B	Total/NA
Vinyl chloride	130		40	12	ug/L	40		8260B	Total/NA

Client Sample ID: GW-101315-TP-023 — Lab Sample ID: 240-56546-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	240	J	250	75	ug/L	250		8260B	Total/NA
cis-1,2-Dichloroethene	6300		250	65	ug/L	250		8260B	Total/NA
trans-1,2-Dichloroethene	110	J	250	75	ug/L	250		8260B	Total/NA
Trichloroethene	260		250	55	ug/L	250		8260B	Total/NA
Vinyl chloride	440		250	73	ug/L	250		8260B	Total/NA

Client Sample ID: GW-101315-TP-024 — Lab Sample ID: 240-56546-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	150	J	200	60	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene	5100		200	52	ug/L	200		8260B	Total/NA
trans-1,2-Dichloroethene	150	J	200	60	ug/L	200		8260B	Total/NA
Trichloroethene	1400		200	44	ug/L	200		8260B	Total/NA
Vinyl chloride	160	J	200	58	ug/L	200		8260B	Total/NA

Client Sample ID: GW-101315-TP-025 — Lab Sample ID: 240-56546-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	130	J	200	60	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene	4900		200	52	ug/L	200		8260B	Total/NA
trans-1,2-Dichloroethene	140	J	200	60	ug/L	200		8260B	Total/NA
Trichloroethene	1300		200	44	ug/L	200		8260B	Total/NA
Vinyl chloride	120	J	200	58	ug/L	200		8260B	Total/NA

Client Sample ID: GW-101315-TP-026 — Lab Sample ID: 240-56546-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2000		83	22	ug/L	83.33		8260B	Total/NA
trans-1,2-Dichloroethene	79	J	83	25	ug/L	83.33		8260B	Total/NA
Vinyl chloride	130		83	24	ug/L	83.33		8260B	Total/NA

Client Sample ID: RB-101315-TP-003 — Lab Sample ID: 240-56546-7

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-2

Client Sample ID: RB-101315-TP-003 (Continued) — Lab Sample ID: 240-56546-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.67	J	10	0.53	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101315-TP-027 — Lab Sample ID: 240-56546-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	860		40	10	ug/L	40		8260B	Total/NA
trans-1,2-Dichloroethene	24	J	40	12	ug/L	40		8260B	Total/NA
Vinyl chloride	12	J	40	12	ug/L	40		8260B	Total/NA

Client Sample ID: TB-101315-TP-002 — Lab Sample ID: 240-56546-9

No Detections.

This Detection Summary does not include radiochemical test results.

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: GW-101315-TP-021
Date Collected: 10/13/15 10:03
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10	U	10	4.4	ug/L			10/21/15 21:59	10
1,1,2,2-Tetrachloroethane	10	U	10	2.2	ug/L			10/21/15 21:59	10
1,1,2-Trichloroethane	10	U	10	2.4	ug/L			10/21/15 21:59	10
1,1-Dichloroethane	**16**		10	3.0	ug/L			10/21/15 21:59	10
1,1-Dichloroethene	10	U	10	4.5	ug/L			10/21/15 21:59	10
1,2-Dichloroethane	10	U	10	2.3	ug/L			10/21/15 21:59	10
1,2-Dichloropropane	10	U	10	2.5	ug/L			10/21/15 21:59	10
2-Hexanone	100	U	100	4.8	ug/L			10/21/15 21:59	10
Acetone	100	U	100	9.4	ug/L			10/21/15 21:59	10
Benzene	10	U	10	3.5	ug/L			10/21/15 21:59	10
Bromoform	10	U	10	5.6	ug/L			10/21/15 21:59	10
Bromomethane	10	U	10	4.4	ug/L			10/21/15 21:59	10
Carbon disulfide	10	U	10	3.8	ug/L			10/21/15 21:59	10
Carbon tetrachloride	10	U	10	4.3	ug/L			10/21/15 21:59	10
Chlorobenzene	10	U	10	2.5	ug/L			10/21/15 21:59	10
Chloroethane	10	U	10	3.2	ug/L			10/21/15 21:59	10
Chloroform	10	U	10	2.5	ug/L			10/21/15 21:59	10
Chloromethane	10	U	10	4.4	ug/L			10/21/15 21:59	10
cis-1,2-Dichloroethene	**250**		10	2.6	ug/L			10/21/15 21:59	10
cis-1,3-Dichloropropene	10	U	10	4.6	ug/L			10/21/15 21:59	10
Dichlorobromomethane	10	U	10	2.9	ug/L			10/21/15 21:59	10
Ethylbenzene	10	U	10	2.5	ug/L			10/21/15 21:59	10
2-Butanone (MEK)	100	U	100	5.3	ug/L			10/21/15 21:59	10
4-Methyl-2-pentanone (MIBK)	100	U	100	9.9	ug/L			10/21/15 21:59	10
Methylene Chloride	10	U	10	3.3	ug/L			10/21/15 21:59	10
Styrene	10	U	10	4.5	ug/L			10/21/15 21:59	10
Tetrachloroethene	10	U	10	3.1	ug/L			10/21/15 21:59	10
Toluene	10	U	10	2.3	ug/L			10/21/15 21:59	10
trans-1,2-Dichloroethene	**22**		10	3.0	ug/L			10/21/15 21:59	10
trans-1,3-Dichloropropene	10	U	10	5.6	ug/L			10/21/15 21:59	10
Trichloroethene	10	U	10	2.2	ug/L			10/21/15 21:59	10
Vinyl chloride	**30**		10	2.9	ug/L			10/21/15 21:59	10
Xylenes, Total	20	U	20	5.2	ug/L			10/21/15 21:59	10
Chlorodibromomethane	10	U	10	4.3	ug/L			10/21/15 21:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*78 - 125*		*10/21/15 21:59*	*10*
4-Bromofluorobenzene (Surr)	*77*		*61 - 120*		*10/21/15 21:59*	*10*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/21/15 21:59*	*10*
Dibromofluoromethane (Surr)	*101*		*79 - 120*		*10/21/15 21:59*	*10*

Client Sample ID: GW-101315-TP-022
Date Collected: 10/13/15 11:02
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	40	U	40	18	ug/L			10/21/15 13:43	40
1,1,2,2-Tetrachloroethane	40	U	40	8.8	ug/L			10/21/15 13:43	40
1,1,2-Trichloroethane	40	U	40	9.6	ug/L			10/21/15 13:43	40
1,1-Dichloroethane	**59**		40	12	ug/L			10/21/15 13:43	40
1,1-Dichloroethene	40	U	40	18	ug/L			10/21/15 13:43	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101315-TP-022
Date Collected: 10/13/15 11:02
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	40	U	40	9.2	ug/L			10/21/15 13:43	40
1,2-Dichloropropane	40	U	40	10	ug/L			10/21/15 13:43	40
2-Hexanone	400	U	400	19	ug/L			10/21/15 13:43	40
Acetone	400	U	400	38	ug/L			10/21/15 13:43	40
Benzene	40	U	40	14	ug/L			10/21/15 13:43	40
Bromoform	40	U	40	22	ug/L			10/21/15 13:43	40
Bromomethane	40	U	40	18	ug/L			10/21/15 13:43	40
Carbon disulfide	40	U	40	15	ug/L			10/21/15 13:43	40
Carbon tetrachloride	40	U	40	17	ug/L			10/21/15 13:43	40
Chlorobenzene	40	U	40	10	ug/L			10/21/15 13:43	40
Chloroethane	40	U	40	13	ug/L			10/21/15 13:43	40
Chloroform	40	U	40	10	ug/L			10/21/15 13:43	40
Chloromethane	40	U	40	18	ug/L			10/21/15 13:43	40
cis-1,2-Dichloroethene	**1000**		40	10	ug/L			10/21/15 13:43	40
cis-1,3-Dichloropropene	40	U	40	18	ug/L			10/21/15 13:43	40
Dichlorobromomethane	40	U	40	12	ug/L			10/21/15 13:43	40
Ethylbenzene	40	U	40	10	ug/L			10/21/15 13:43	40
2-Butanone (MEK)	400	U	400	21	ug/L			10/21/15 13:43	40
4-Methyl-2-pentanone (MIBK)	400	U	400	40	ug/L			10/21/15 13:43	40
Methylene Chloride	40	U	40	13	ug/L			10/21/15 13:43	40
Styrene	40	U	40	18	ug/L			10/21/15 13:43	40
Tetrachloroethene	40	U	40	12	ug/L			10/21/15 13:43	40
Toluene	40	U	40	9.2	ug/L			10/21/15 13:43	40
trans-1,2-Dichloroethene	**67**		40	12	ug/L			10/21/15 13:43	40
trans-1,3-Dichloropropene	40	U	40	22	ug/L			10/21/15 13:43	40
Trichloroethene	40	U	40	8.8	ug/L			10/21/15 13:43	40
Vinyl chloride	**130**		40	12	ug/L			10/21/15 13:43	40
Xylenes, Total	80	U	80	21	ug/L			10/21/15 13:43	40
Chlorodibromomethane	40	U	40	17	ug/L			10/21/15 13:43	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*78 - 125*		*10/21/15 13:43*	*40*
4-Bromofluorobenzene (Surr)	*78*		*61 - 120*		*10/21/15 13:43*	*40*
Toluene-d8 (Surr)	*92*		*80 - 120*		*10/21/15 13:43*	*40*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*10/21/15 13:43*	*40*

Client Sample ID: GW-101315-TP-023
Date Collected: 10/13/15 12:12
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	250	U	250	110	ug/L			10/21/15 22:24	250
1,1,2,2-Tetrachloroethane	250	U	250	55	ug/L			10/21/15 22:24	250
1,1,2-Trichloroethane	250	U	250	60	ug/L			10/21/15 22:24	250
1,1-Dichloroethane	**240**	**J**	250	75	ug/L			10/21/15 22:24	250
1,1-Dichloroethene	250	U	250	110	ug/L			10/21/15 22:24	250
1,2-Dichloroethane	250	U	250	58	ug/L			10/21/15 22:24	250
1,2-Dichloropropane	250	U	250	63	ug/L			10/21/15 22:24	250
2-Hexanone	2500	U	2500	120	ug/L			10/21/15 22:24	250
Acetone	2500	U	2500	240	ug/L			10/21/15 22:24	250
Benzene	250	U	250	88	ug/L			10/21/15 22:24	250

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101315-TP-023
Date Collected: 10/13/15 12:12
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	250	U	250	140	ug/L			10/21/15 22:24	250
Bromomethane	250	U	250	110	ug/L			10/21/15 22:24	250
Carbon disulfide	250	U	250	95	ug/L			10/21/15 22:24	250
Carbon tetrachloride	250	U	250	110	ug/L			10/21/15 22:24	250
Chlorobenzene	250	U	250	63	ug/L			10/21/15 22:24	250
Chloroethane	250	U	250	80	ug/L			10/21/15 22:24	250
Chloroform	250	U	250	63	ug/L			10/21/15 22:24	250
Chloromethane	250	U	250	110	ug/L			10/21/15 22:24	250
cis-1,2-Dichloroethene	**6300**		250	65	ug/L			10/21/15 22:24	250
cis-1,3-Dichloropropene	250	U	250	120	ug/L			10/21/15 22:24	250
Dichlorobromomethane	250	U	250	73	ug/L			10/21/15 22:24	250
Ethylbenzene	250	U	250	63	ug/L			10/21/15 22:24	250
2-Butanone (MEK)	2500	U	2500	130	ug/L			10/21/15 22:24	250
4-Methyl-2-pentanone (MIBK)	2500	U	2500	250	ug/L			10/21/15 22:24	250
Methylene Chloride	250	U	250	83	ug/L			10/21/15 22:24	250
Styrene	250	U	250	110	ug/L			10/21/15 22:24	250
Tetrachloroethene	250	U	250	78	ug/L			10/21/15 22:24	250
Toluene	250	U	250	58	ug/L			10/21/15 22:24	250
trans-1,2-Dichloroethene	**110**	**J**	250	75	ug/L			10/21/15 22:24	250
trans-1,3-Dichloropropene	250	U	250	140	ug/L			10/21/15 22:24	250
Trichloroethene	**260**		250	55	ug/L			10/21/15 22:24	250
Vinyl chloride	**440**		250	73	ug/L			10/21/15 22:24	250
Xylenes, Total	500	U	500	130	ug/L			10/21/15 22:24	250
Chlorodibromomethane	250	U	250	110	ug/L			10/21/15 22:24	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*78 - 125*		*10/21/15 22:24*	*250*
4-Bromofluorobenzene (Surr)	*79*		*61 - 120*		*10/21/15 22:24*	*250*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/21/15 22:24*	*250*
Dibromofluoromethane (Surr)	*102*		*79 - 120*		*10/21/15 22:24*	*250*

Client Sample ID: GW-101315-TP-024
Date Collected: 10/13/15 13:12
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	200	U	200	88	ug/L			10/21/15 22:48	200
1,1,2,2-Tetrachloroethane	200	U	200	44	ug/L			10/21/15 22:48	200
1,1,2-Trichloroethane	200	U	200	48	ug/L			10/21/15 22:48	200
1,1-Dichloroethane	**150**	**J**	200	60	ug/L			10/21/15 22:48	200
1,1-Dichloroethene	200	U	200	90	ug/L			10/21/15 22:48	200
1,2-Dichloroethane	200	U	200	46	ug/L			10/21/15 22:48	200
1,2-Dichloropropane	200	U	200	50	ug/L			10/21/15 22:48	200
2-Hexanone	2000	U	2000	96	ug/L			10/21/15 22:48	200
Acetone	2000	U	2000	190	ug/L			10/21/15 22:48	200
Benzene	200	U	200	70	ug/L			10/21/15 22:48	200
Bromoform	200	U	200	110	ug/L			10/21/15 22:48	200
Bromomethane	200	U	200	88	ug/L			10/21/15 22:48	200
Carbon disulfide	200	U	200	76	ug/L			10/21/15 22:48	200
Carbon tetrachloride	200	U	200	86	ug/L			10/21/15 22:48	200
Chlorobenzene	200	U	200	50	ug/L			10/21/15 22:48	200

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101315-TP-024
Date Collected: 10/13/15 13:12
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	200	U	200	64	ug/L			10/21/15 22:48	200
Chloroform	200	U	200	50	ug/L			10/21/15 22:48	200
Chloromethane	200	U	200	88	ug/L			10/21/15 22:48	200
cis-1,2-Dichloroethene	**5100**		200	52	ug/L			10/21/15 22:48	200
cis-1,3-Dichloropropene	200	U	200	92	ug/L			10/21/15 22:48	200
Dichlorobromomethane	200	U	200	58	ug/L			10/21/15 22:48	200
Ethylbenzene	200	U	200	50	ug/L			10/21/15 22:48	200
2-Butanone (MEK)	2000	U	2000	110	ug/L			10/21/15 22:48	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	200	ug/L			10/21/15 22:48	200
Methylene Chloride	200	U	200	66	ug/L			10/21/15 22:48	200
Styrene	200	U	200	90	ug/L			10/21/15 22:48	200
Tetrachloroethene	200	U	200	62	ug/L			10/21/15 22:48	200
Toluene	200	U	200	46	ug/L			10/21/15 22:48	200
trans-1,2-Dichloroethene	**150**	**J**	200	60	ug/L			10/21/15 22:48	200
trans-1,3-Dichloropropene	200	U	200	110	ug/L			10/21/15 22:48	200
Trichloroethene	**1400**		200	44	ug/L			10/21/15 22:48	200
Vinyl chloride	**160**	**J**	200	58	ug/L			10/21/15 22:48	200
Xylenes, Total	400	U	400	100	ug/L			10/21/15 22:48	200
Chlorodibromomethane	200	U	200	86	ug/L			10/21/15 22:48	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*78 - 125*		*10/21/15 22:48*	*200*
4-Bromofluorobenzene (Surr)	*78*		*61 - 120*		*10/21/15 22:48*	*200*
Toluene-d8 (Surr)	*90*		*80 - 120*		*10/21/15 22:48*	*200*
Dibromofluoromethane (Surr)	*103*		*79 - 120*		*10/21/15 22:48*	*200*

Client Sample ID: GW-101315-TP-025
Date Collected: 10/13/15 13:20
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	200	U	200	88	ug/L			10/21/15 21:52	200
1,1,2,2-Tetrachloroethane	200	U	200	44	ug/L			10/21/15 21:52	200
1,1,2-Trichloroethane	200	U	200	48	ug/L			10/21/15 21:52	200
1,1-Dichloroethane	**130**	**J**	200	60	ug/L			10/21/15 21:52	200
1,1-Dichloroethene	200	U	200	90	ug/L			10/21/15 21:52	200
1,2-Dichloroethane	200	U	200	46	ug/L			10/21/15 21:52	200
1,2-Dichloropropane	200	U	200	50	ug/L			10/21/15 21:52	200
2-Hexanone	2000	U	2000	96	ug/L			10/21/15 21:52	200
Acetone	2000	U	2000	190	ug/L			10/21/15 21:52	200
Benzene	200	U	200	70	ug/L			10/21/15 21:52	200
Bromoform	200	U	200	110	ug/L			10/21/15 21:52	200
Bromomethane	200	U	200	88	ug/L			10/21/15 21:52	200
Carbon disulfide	200	U	200	76	ug/L			10/21/15 21:52	200
Carbon tetrachloride	200	U	200	86	ug/L			10/21/15 21:52	200
Chlorobenzene	200	U	200	50	ug/L			10/21/15 21:52	200
Chloroethane	200	U	200	64	ug/L			10/21/15 21:52	200
Chloroform	200	U	200	50	ug/L			10/21/15 21:52	200
Chloromethane	200	U	200	88	ug/L			10/21/15 21:52	200
cis-1,2-Dichloroethene	**4900**		200	52	ug/L			10/21/15 21:52	200
cis-1,3-Dichloropropene	200	U	200	92	ug/L			10/21/15 21:52	200

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101315-TP-025
Date Collected: 10/13/15 13:20
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	200	U	200	58	ug/L			10/21/15 21:52	200
Ethylbenzene	200	U	200	50	ug/L			10/21/15 21:52	200
2-Butanone (MEK)	2000	U	2000	110	ug/L			10/21/15 21:52	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	200	ug/L			10/21/15 21:52	200
Methylene Chloride	200	U	200	66	ug/L			10/21/15 21:52	200
Styrene	200	U	200	90	ug/L			10/21/15 21:52	200
Tetrachloroethene	200	U	200	62	ug/L			10/21/15 21:52	200
Toluene	200	U	200	46	ug/L			10/21/15 21:52	200
trans-1,2-Dichloroethene	**140**	**J**	200	60	ug/L			10/21/15 21:52	200
trans-1,3-Dichloropropene	200	U	200	110	ug/L			10/21/15 21:52	200
Trichloroethene	**1300**		200	44	ug/L			10/21/15 21:52	200
Vinyl chloride	**120**	**J**	200	58	ug/L			10/21/15 21:52	200
Xylenes, Total	400	U	400	100	ug/L			10/21/15 21:52	200
Chlorodibromomethane	200	U	200	86	ug/L			10/21/15 21:52	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*78 - 125*		*10/21/15 21:52*	*200*
4-Bromofluorobenzene (Surr)	*94*		*61 - 120*		*10/21/15 21:52*	*200*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/21/15 21:52*	*200*
Dibromofluoromethane (Surr)	*92*		*79 - 120*		*10/21/15 21:52*	*200*

Client Sample ID: GW-101315-TP-026
Date Collected: 10/13/15 14:17
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	83	U	83	37	ug/L			10/21/15 22:15	83.33
1,1,2,2-Tetrachloroethane	83	U	83	18	ug/L			10/21/15 22:15	83.33
1,1,2-Trichloroethane	83	U	83	20	ug/L			10/21/15 22:15	83.33
1,1-Dichloroethane	83	U	83	25	ug/L			10/21/15 22:15	83.33
1,1-Dichloroethene	83	U	83	37	ug/L			10/21/15 22:15	83.33
1,2-Dichloroethane	83	U	83	19	ug/L			10/21/15 22:15	83.33
1,2-Dichloropropane	83	U	83	21	ug/L			10/21/15 22:15	83.33
2-Hexanone	830	U	830	40	ug/L			10/21/15 22:15	83.33
Acetone	830	U	830	78	ug/L			10/21/15 22:15	83.33
Benzene	83	U	83	29	ug/L			10/21/15 22:15	83.33
Bromoform	83	U	83	47	ug/L			10/21/15 22:15	83.33
Bromomethane	83	U	83	37	ug/L			10/21/15 22:15	83.33
Carbon disulfide	83	U	83	32	ug/L			10/21/15 22:15	83.33
Carbon tetrachloride	83	U	83	36	ug/L			10/21/15 22:15	83.33
Chlorobenzene	83	U	83	21	ug/L			10/21/15 22:15	83.33
Chloroethane	83	U	83	27	ug/L			10/21/15 22:15	83.33
Chloroform	83	U	83	21	ug/L			10/21/15 22:15	83.33
Chloromethane	83	U	83	37	ug/L			10/21/15 22:15	83.33
cis-1,2-Dichloroethene	**2000**		83	22	ug/L			10/21/15 22:15	83.33
cis-1,3-Dichloropropene	83	U	83	38	ug/L			10/21/15 22:15	83.33
Dichlorobromomethane	83	U	83	24	ug/L			10/21/15 22:15	83.33
Ethylbenzene	83	U	83	21	ug/L			10/21/15 22:15	83.33
2-Butanone (MEK)	830	U	830	44	ug/L			10/21/15 22:15	83.33
4-Methyl-2-pentanone (MIBK)	830	U	830	82	ug/L			10/21/15 22:15	83.33
Methylene Chloride	83	U	83	27	ug/L			10/21/15 22:15	83.33

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101315-TP-026
Date Collected: 10/13/15 14:17
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	83	U	83	37	ug/L			10/21/15 22:15	83.33
Tetrachloroethene	83	U	83	26	ug/L			10/21/15 22:15	83.33
Toluene	83	U	83	19	ug/L			10/21/15 22:15	83.33
trans-1,2-Dichloroethene	**79**	**J**	83	25	ug/L			10/21/15 22:15	83.33
trans-1,3-Dichloropropene	83	U	83	47	ug/L			10/21/15 22:15	83.33
Trichloroethene	83	U	83	18	ug/L			10/21/15 22:15	83.33
Vinyl chloride	**130**		83	24	ug/L			10/21/15 22:15	83.33
Xylenes, Total	170	U	170	43	ug/L			10/21/15 22:15	83.33
Chlorodibromomethane	83	U	83	36	ug/L			10/21/15 22:15	83.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*78 - 125*		*10/21/15 22:15*	*83.33*
4-Bromofluorobenzene (Surr)	*93*		*61 - 120*		*10/21/15 22:15*	*83.33*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/21/15 22:15*	*83.33*
Dibromofluoromethane (Surr)	*93*		*79 - 120*		*10/21/15 22:15*	*83.33*

Client Sample ID: RB-101315-TP-003
Date Collected: 10/13/15 14:40
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/21/15 21:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/21/15 21:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/21/15 21:29	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/21/15 21:29	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/21/15 21:29	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/21/15 21:29	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/21/15 21:29	1
2-Hexanone	10	U	10	0.48	ug/L			10/21/15 21:29	1
Acetone	10	U	10	0.94	ug/L			10/21/15 21:29	1
Benzene	1.0	U	1.0	0.35	ug/L			10/21/15 21:29	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/21/15 21:29	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/21/15 21:29	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/21/15 21:29	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/21/15 21:29	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/21/15 21:29	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/21/15 21:29	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/21/15 21:29	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/21/15 21:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/21/15 21:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/21/15 21:29	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/21/15 21:29	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/21/15 21:29	1
2-Butanone (MEK)	**0.67**	**J**	10	0.53	ug/L			10/21/15 21:29	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/21/15 21:29	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/21/15 21:29	1
Styrene	1.0	U	1.0	0.45	ug/L			10/21/15 21:29	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/21/15 21:29	1
Toluene	1.0	U	1.0	0.23	ug/L			10/21/15 21:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/21/15 21:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/21/15 21:29	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-101315-TP-003
Date Collected: 10/13/15 14:40
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/21/15 21:29	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/21/15 21:29	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/21/15 21:29	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/21/15 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*78 - 125*		*10/21/15 21:29*	*1*
4-Bromofluorobenzene (Surr)	*92*		*61 - 120*		*10/21/15 21:29*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/21/15 21:29*	*1*
Dibromofluoromethane (Surr)	*94*		*79 - 120*		*10/21/15 21:29*	*1*

Client Sample ID: GW-101315-TP-027
Date Collected: 10/13/15 15:23
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	40	U	40	18	ug/L			10/21/15 17:41	40
1,1,2,2-Tetrachloroethane	40	U	40	8.8	ug/L			10/21/15 17:41	40
1,1,2-Trichloroethane	40	U	40	9.6	ug/L			10/21/15 17:41	40
1,1-Dichloroethane	40	U	40	12	ug/L			10/21/15 17:41	40
1,1-Dichloroethene	40	U	40	18	ug/L			10/21/15 17:41	40
1,2-Dichloroethane	40	U	40	9.2	ug/L			10/21/15 17:41	40
1,2-Dichloropropane	40	U	40	10	ug/L			10/21/15 17:41	40
2-Hexanone	400	U	400	19	ug/L			10/21/15 17:41	40
Acetone	400	U	400	38	ug/L			10/21/15 17:41	40
Benzene	40	U	40	14	ug/L			10/21/15 17:41	40
Bromoform	40	U	40	22	ug/L			10/21/15 17:41	40
Bromomethane	40	U	40	18	ug/L			10/21/15 17:41	40
Carbon disulfide	40	U	40	15	ug/L			10/21/15 17:41	40
Carbon tetrachloride	40	U	40	17	ug/L			10/21/15 17:41	40
Chlorobenzene	40	U	40	10	ug/L			10/21/15 17:41	40
Chloroethane	40	U	40	13	ug/L			10/21/15 17:41	40
Chloroform	40	U	40	10	ug/L			10/21/15 17:41	40
Chloromethane	40	U	40	18	ug/L			10/21/15 17:41	40
cis-1,2-Dichloroethene	**860**		40	10	ug/L			10/21/15 17:41	40
cis-1,3-Dichloropropene	40	U	40	18	ug/L			10/21/15 17:41	40
Dichlorobromomethane	40	U	40	12	ug/L			10/21/15 17:41	40
Ethylbenzene	40	U	40	10	ug/L			10/21/15 17:41	40
2-Butanone (MEK)	400	U	400	21	ug/L			10/21/15 17:41	40
4-Methyl-2-pentanone (MIBK)	400	U	400	40	ug/L			10/21/15 17:41	40
Methylene Chloride	40	U	40	13	ug/L			10/21/15 17:41	40
Styrene	40	U	40	18	ug/L			10/21/15 17:41	40
Tetrachloroethene	40	U	40	12	ug/L			10/21/15 17:41	40
Toluene	40	U	40	9.2	ug/L			10/21/15 17:41	40
trans-1,2-Dichloroethene	**24**	**J**	40	12	ug/L			10/21/15 17:41	40
trans-1,3-Dichloropropene	40	U	40	22	ug/L			10/21/15 17:41	40
Trichloroethene	40	U	40	8.8	ug/L			10/21/15 17:41	40
Vinyl chloride	**12**	**J**	40	12	ug/L			10/21/15 17:41	40
Xylenes, Total	80	U	80	21	ug/L			10/21/15 17:41	40
Chlorodibromomethane	40	U	40	17	ug/L			10/21/15 17:41	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*92*		*78 - 125*		*10/21/15 17:41*	*40*
4-Bromofluorobenzene (Surr)	*93*		*61 - 120*		*10/21/15 17:41*	*40*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/21/15 17:41*	*40*
Dibromofluoromethane (Surr)	*92*		*79 - 120*		*10/21/15 17:41*	*40*

Client Sample ID: TB-101315-TP-002
Date Collected: 10/13/15 16:00
Date Received: 10/14/15 10:00

Lab Sample ID: 240-56546-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/21/15 18:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/21/15 18:04	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/21/15 18:04	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/21/15 18:04	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/21/15 18:04	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/21/15 18:04	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/21/15 18:04	1
2-Hexanone	10	U	10	0.48	ug/L			10/21/15 18:04	1
Acetone	10	U	10	0.94	ug/L			10/21/15 18:04	1
Benzene	1.0	U	1.0	0.35	ug/L			10/21/15 18:04	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/21/15 18:04	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/21/15 18:04	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/21/15 18:04	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/21/15 18:04	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/21/15 18:04	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/21/15 18:04	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/21/15 18:04	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/21/15 18:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/21/15 18:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/21/15 18:04	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/21/15 18:04	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/21/15 18:04	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/21/15 18:04	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/21/15 18:04	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/21/15 18:04	1
Styrene	1.0	U	1.0	0.45	ug/L			10/21/15 18:04	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/21/15 18:04	1
Toluene	1.0	U	1.0	0.23	ug/L			10/21/15 18:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/21/15 18:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/21/15 18:04	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/21/15 18:04	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/21/15 18:04	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/21/15 18:04	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/21/15 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*99*		*78 - 125*		*10/21/15 18:04*	*1*
4-Bromofluorobenzene (Surr)	*92*		*61 - 120*		*10/21/15 18:04*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/21/15 18:04*	*1*
Dibromofluoromethane (Surr)	*94*		*79 - 120*		*10/21/15 18:04*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-125)	(61-120)	(80-120)	(79-120)
240-56546-1	GW-101315-TP-021	99	77	91	101
240-56546-2	GW-101315-TP-022	96	78	92	104
240-56546-2 MS	GW-101315-TP-022	88	91	96	96
240-56546-2 MSD	GW-101315-TP-022	91	91	97	94
240-56546-3	GW-101315-TP-023	100	79	91	102
240-56546-4	GW-101315-TP-024	101	78	90	103
240-56546-5	GW-101315-TP-025	96	94	95	92
240-56546-6	GW-101315-TP-026	96	93	98	93
240-56546-7	RB-101315-TP-003	96	92	93	94
240-56546-8	GW-101315-TP-027	92	93	96	92
240-56546-9	TB-101315-TP-002	99	92	97	94
LCS 240-202894/4	Lab Control Sample	90	93	100	94
LCS 240-202896/4	Lab Control Sample	92	97	96	94
MB 240-202894/6	Method Blank	96	79	91	99
MB 240-202896/6	Method Blank	96	93	98	93

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-202894/6
Matrix: Water
Analysis Batch: 202894

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/21/15 13:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/21/15 13:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/21/15 13:18	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/21/15 13:18	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/21/15 13:18	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/21/15 13:18	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/21/15 13:18	1
2-Hexanone	10	U	10	0.48	ug/L			10/21/15 13:18	1
Acetone	10	U	10	0.94	ug/L			10/21/15 13:18	1
Benzene	1.0	U	1.0	0.35	ug/L			10/21/15 13:18	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/21/15 13:18	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/21/15 13:18	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/21/15 13:18	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/21/15 13:18	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/21/15 13:18	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/21/15 13:18	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/21/15 13:18	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/21/15 13:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/21/15 13:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/21/15 13:18	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/21/15 13:18	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/21/15 13:18	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/21/15 13:18	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/21/15 13:18	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/21/15 13:18	1
Styrene	1.0	U	1.0	0.45	ug/L			10/21/15 13:18	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/21/15 13:18	1
Toluene	1.0	U	1.0	0.23	ug/L			10/21/15 13:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/21/15 13:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/21/15 13:18	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/21/15 13:18	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/21/15 13:18	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/21/15 13:18	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/21/15 13:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*78 - 125*		*10/21/15 13:18*	*1*
4-Bromofluorobenzene (Surr)	*79*		*61 - 120*		*10/21/15 13:18*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/21/15 13:18*	*1*
Dibromofluoromethane (Surr)	*99*		*79 - 120*		*10/21/15 13:18*	*1*

Lab Sample ID: LCS 240-202894/4
Matrix: Water
Analysis Batch: 202894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	9.75		ug/L		98	77 - 123
1,1,2,2-Tetrachloroethane	10.0	8.55		ug/L		85	71 - 123

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-202894/4
Matrix: Water
Analysis Batch: 202894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	10.0	9.81		ug/L		98	80 - 120
1,1-Dichloroethane	10.0	9.80		ug/L		98	79 - 125
1,1-Dichloroethene	10.0	9.77		ug/L		98	76 - 124
1,2-Dichloroethane	10.0	9.29		ug/L		93	80 - 120
1,2-Dichloropropane	10.0	9.73		ug/L		97	78 - 124
2-Hexanone	20.0	20.6		ug/L		103	55 - 141
Acetone	20.0	17.9		ug/L		89	34 - 148
Benzene	10.0	9.63		ug/L		96	80 - 120
Bromoform	10.0	9.17		ug/L		92	56 - 122
Bromomethane	10.0	8.75		ug/L		87	38 - 132
Carbon disulfide	10.0	9.74		ug/L		97	65 - 144
Carbon tetrachloride	10.0	10.1		ug/L		101	77 - 131
Chlorobenzene	10.0	9.83		ug/L		98	80 - 120
Chloroethane	10.0	8.69		ug/L		87	36 - 126
Chloroform	10.0	9.57		ug/L		96	80 - 120
Chloromethane	10.0	9.99		ug/L		100	48 - 133
cis-1,2-Dichloroethene	10.0	9.52		ug/L		95	79 - 120
cis-1,3-Dichloropropene	10.0	9.20		ug/L		92	74 - 126
Dichlorobromomethane	10.0	8.97		ug/L		90	80 - 120
Ethylbenzene	10.0	9.62		ug/L		96	80 - 120
m-Xylene & p-Xylene	10.0	10.1		ug/L		101	80 - 120
2-Butanone (MEK)	20.0	18.9		ug/L		94	56 - 138
4-Methyl-2-pentanone (MIBK)	20.0	19.5		ug/L		98	64 - 135
Methylene Chloride	10.0	9.11		ug/L		91	77 - 129
o-Xylene	10.0	9.78		ug/L		98	80 - 120
Styrene	10.0	9.72		ug/L		97	76 - 122
Tetrachloroethene	10.0	10.9		ug/L		109	78 - 121
Toluene	10.0	9.89		ug/L		99	80 - 120
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	80 - 124
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	75 - 131
Trichloroethene	10.0	9.59		ug/L		96	80 - 121
Vinyl chloride	10.0	8.96		ug/L		90	52 - 121
Xylenes, Total	20.0	19.9		ug/L		99	80 - 120
Chlorodibromomethane	10.0	9.34		ug/L		93	74 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*78 - 125*
4-Bromofluorobenzene (Surr)	*93*		*61 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*79 - 120*

Lab Sample ID: 240-56546-2 MS
Matrix: Water
Analysis Batch: 202894

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	40	U	400	396		ug/L		99	69 - 122
1,1,2,2-Tetrachloroethane	40	U	400	360		ug/L		90	61 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-56546-2 MS
Matrix: Water
Analysis Batch: 202894

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	40	U	400	378		ug/L		95	72 - 125
1,1-Dichloroethane	59		400	460		ug/L		100	73 - 124
1,1-Dichloroethene	40	U	400	409		ug/L		102	67 - 124
1,2-Dichloroethane	40	U	400	385		ug/L		96	74 - 125
1,2-Dichloropropane	40	U	400	402		ug/L		101	73 - 122
2-Hexanone	400	U	800	833		ug/L		104	49 - 142
Acetone	400	U	800	711		ug/L		89	32 - 126
Benzene	40	U	400	396		ug/L		99	73 - 121
Bromoform	40	U	400	355		ug/L		89	45 - 121
Bromomethane	40	U	400	295		ug/L		74	26 - 136
Carbon disulfide	40	U	400	399		ug/L		100	54 - 144
Carbon tetrachloride	40	U	400	414		ug/L		104	65 - 129
Chlorobenzene	40	U	400	390		ug/L		97	72 - 120
Chloroethane	40	U	400	287		ug/L		72	27 - 131
Chloroform	40	U	400	393		ug/L		98	73 - 121
Chloromethane	40	U	400	365		ug/L		91	39 - 134
cis-1,2-Dichloroethene	1000		400	1400		ug/L		89	66 - 124
cis-1,3-Dichloropropene	40	U	400	374		ug/L		93	60 - 120
Dichlorobromomethane	40	U	400	367		ug/L		92	72 - 120
Ethylbenzene	40	U	400	388		ug/L		97	68 - 121
m-Xylene & p-Xylene	80	U	400	410		ug/L		102	66 - 123
2-Butanone (MEK)	400	U	800	775		ug/L		97	49 - 132
4-Methyl-2-pentanone (MIBK)	400	U	800	829		ug/L		104	58 - 136
Methylene Chloride	40	U	400	372		ug/L		93	70 - 124
o-Xylene	40	U	400	398		ug/L		99	68 - 121
Styrene	40	U	400	387		ug/L		97	64 - 126
Tetrachloroethene	40	U	400	435		ug/L		109	59 - 125
Toluene	40	U	400	400		ug/L		100	72 - 122
trans-1,2-Dichloroethene	67		400	486		ug/L		105	72 - 125
trans-1,3-Dichloropropene	40	U	400	389		ug/L		97	58 - 132
Trichloroethene	40	U	400	412		ug/L		103	61 - 129
Vinyl chloride	130		400	474		ug/L		86	44 - 122
Xylenes, Total	80	U	800	808		ug/L		101	67 - 122
Chlorodibromomethane	40	U	400	364		ug/L		91	62 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*78 - 125*
4-Bromofluorobenzene (Surr)	*91*		*61 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*79 - 120*

Lab Sample ID: 240-56546-2 MSD
Matrix: Water
Analysis Batch: 202894

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	40	U	400	392		ug/L		98	69 - 122	1	14
1,1,2,2-Tetrachloroethane	40	U	400	352		ug/L		88	61 - 130	2	18

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-56546-2 MSD
Matrix: Water
Analysis Batch: 202894

Client Sample ID: GW-101315-TP-022
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	40	U	400	377		ug/L		94	72 - 125	0	19
1,1-Dichloroethane	59		400	455		ug/L		99	73 - 124	1	14
1,1-Dichloroethene	40	U	400	386		ug/L		96	67 - 124	6	24
1,2-Dichloroethane	40	U	400	379		ug/L		95	74 - 125	2	24
1,2-Dichloropropane	40	U	400	392		ug/L		98	73 - 122	3	15
2-Hexanone	400	U	800	848		ug/L		106	49 - 142	2	27
Acetone	400	U	800	690		ug/L		86	32 - 126	3	28
Benzene	40	U	400	387		ug/L		97	73 - 121	2	13
Bromoform	40	U	400	357		ug/L		89	45 - 121	0	19
Bromomethane	40	U	400	338		ug/L		85	26 - 136	14	35
Carbon disulfide	40	U	400	389		ug/L		97	54 - 144	3	34
Carbon tetrachloride	40	U	400	394		ug/L		99	65 - 129	5	20
Chlorobenzene	40	U	400	388		ug/L		97	72 - 120	0	15
Chloroethane	40	U	400	326		ug/L		82	27 - 131	13	35
Chloroform	40	U	400	383		ug/L		96	73 - 121	2	17
Chloromethane	40	U	400	392		ug/L		98	39 - 134	7	20
cis-1,2-Dichloroethene	1000		400	1380		ug/L		85	66 - 124	1	22
cis-1,3-Dichloropropene	40	U	400	359		ug/L		90	60 - 120	4	21
Dichlorobromomethane	40	U	400	354		ug/L		88	72 - 120	4	19
Ethylbenzene	40	U	400	376		ug/L		94	68 - 121	3	16
m-Xylene & p-Xylene	80	U	400	396		ug/L		99	66 - 123	3	15
2-Butanone (MEK)	400	U	800	795		ug/L		99	49 - 132	3	19
4-Methyl-2-pentanone (MIBK)	400	U	800	793		ug/L		99	58 - 136	5	32
Methylene Chloride	40	U	400	365		ug/L		91	70 - 124	2	14
o-Xylene	40	U	400	396		ug/L		99	68 - 121	0	14
Styrene	40	U	400	384		ug/L		96	64 - 126	1	15
Tetrachloroethene	40	U	400	415		ug/L		104	59 - 125	5	20
Toluene	40	U	400	389		ug/L		97	72 - 122	3	15
trans-1,2-Dichloroethene	67		400	475		ug/L		102	72 - 125	2	25
trans-1,3-Dichloropropene	40	U	400	380		ug/L		95	58 - 132	2	22
Trichloroethene	40	U	400	399		ug/L		100	61 - 129	3	14
Vinyl chloride	130		400	482		ug/L		88	44 - 122	2	35
Xylenes, Total	80	U	800	792		ug/L		99	67 - 122	2	14
Chlorodibromomethane	40	U	400	362		ug/L		91	62 - 122	0	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*78 - 125*
4-Bromofluorobenzene (Surr)	*91*		*61 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*79 - 120*

Lab Sample ID: MB 240-202896/6
Matrix: Water
Analysis Batch: 202896

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/21/15 12:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/21/15 12:29	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-202896/6
Matrix: Water
Analysis Batch: 202896

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/21/15 12:29	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/21/15 12:29	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/21/15 12:29	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/21/15 12:29	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/21/15 12:29	1
2-Hexanone	10	U	10	0.48	ug/L			10/21/15 12:29	1
Acetone	10	U	10	0.94	ug/L			10/21/15 12:29	1
Benzene	1.0	U	1.0	0.35	ug/L			10/21/15 12:29	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/21/15 12:29	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/21/15 12:29	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/21/15 12:29	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/21/15 12:29	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/21/15 12:29	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/21/15 12:29	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/21/15 12:29	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/21/15 12:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/21/15 12:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/21/15 12:29	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/21/15 12:29	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/21/15 12:29	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/21/15 12:29	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/21/15 12:29	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/21/15 12:29	1
Styrene	1.0	U	1.0	0.45	ug/L			10/21/15 12:29	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/21/15 12:29	1
Toluene	1.0	U	1.0	0.23	ug/L			10/21/15 12:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/21/15 12:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/21/15 12:29	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/21/15 12:29	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/21/15 12:29	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/21/15 12:29	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/21/15 12:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*78 - 125*		*10/21/15 12:29*	*1*
4-Bromofluorobenzene (Surr)	*93*		*61 - 120*		*10/21/15 12:29*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/21/15 12:29*	*1*
Dibromofluoromethane (Surr)	*93*		*79 - 120*		*10/21/15 12:29*	*1*

Lab Sample ID: LCS 240-202896/4
Matrix: Water
Analysis Batch: 202896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.3		ug/L		103	77 - 123
1,1,2,2-Tetrachloroethane	10.0	10.3		ug/L		103	71 - 123
1,1,2-Trichloroethane	10.0	10.3		ug/L		103	80 - 120
1,1-Dichloroethane	10.0	10.3		ug/L		103	79 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-202896/4
Matrix: Water
Analysis Batch: 202896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	9.75		ug/L		98	76 - 124
1,2-Dichloroethane	10.0	10.6		ug/L		106	80 - 120
1,2-Dichloropropane	10.0	10.4		ug/L		104	78 - 124
2-Hexanone	20.0	19.5		ug/L		98	55 - 141
Acetone	20.0	17.9		ug/L		89	34 - 148
Benzene	10.0	10.3		ug/L		103	80 - 120
Bromoform	10.0	9.75		ug/L		97	56 - 122
Bromomethane	10.0	9.81		ug/L		98	38 - 132
Carbon disulfide	10.0	9.33		ug/L		93	65 - 144
Carbon tetrachloride	10.0	10.4		ug/L		104	77 - 131
Chlorobenzene	10.0	10.4		ug/L		104	80 - 120
Chloroethane	10.0	8.97		ug/L		90	36 - 126
Chloroform	10.0	10.3		ug/L		103	80 - 120
Chloromethane	10.0	8.15		ug/L		82	48 - 133
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	79 - 120
cis-1,3-Dichloropropene	10.0	10.5		ug/L		105	74 - 126
Dichlorobromomethane	10.0	9.97		ug/L		100	80 - 120
Ethylbenzene	10.0	10.4		ug/L		104	80 - 120
m-Xylene & p-Xylene	10.0	10.5		ug/L		105	80 - 120
2-Butanone (MEK)	20.0	19.2		ug/L		96	56 - 138
4-Methyl-2-pentanone (MIBK)	20.0	20.0		ug/L		100	64 - 135
Methylene Chloride	10.0	10.6		ug/L		106	77 - 129
o-Xylene	10.0	10.6		ug/L		106	80 - 120
Styrene	10.0	9.97		ug/L		100	76 - 122
Tetrachloroethene	10.0	10.4		ug/L		104	78 - 121
Toluene	10.0	10.4		ug/L		104	80 - 120
trans-1,2-Dichloroethene	10.0	9.92		ug/L		99	80 - 124
trans-1,3-Dichloropropene	10.0	11.2		ug/L		112	75 - 131
Trichloroethene	10.0	10.7		ug/L		107	80 - 121
Vinyl chloride	10.0	8.03		ug/L		80	52 - 121
Xylenes, Total	20.0	21.1		ug/L		106	80 - 120
Chlorodibromomethane	10.0	10.4		ug/L		104	74 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*78 - 125*
4-Bromofluorobenzene (Surr)	*97*		*61 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*79 - 120*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-2

GC/MS VOA

Analysis Batch: 202894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-1	GW-101315-TP-021	Total/NA	Water	8260B	
240-56546-2	GW-101315-TP-022	Total/NA	Water	8260B	
240-56546-2 MS	GW-101315-TP-022	Total/NA	Water	8260B	
240-56546-2 MSD	GW-101315-TP-022	Total/NA	Water	8260B	
240-56546-3	GW-101315-TP-023	Total/NA	Water	8260B	
240-56546-4	GW-101315-TP-024	Total/NA	Water	8260B	
LCS 240-202894/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-202894/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 202896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56546-5	GW-101315-TP-025	Total/NA	Water	8260B	
240-56546-6	GW-101315-TP-026	Total/NA	Water	8260B	
240-56546-7	RB-101315-TP-003	Total/NA	Water	8260B	
240-56546-8	GW-101315-TP-027	Total/NA	Water	8260B	
240-56546-9	TB-101315-TP-002	Total/NA	Water	8260B	
LCS 240-202896/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-202896/6	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-2

Client Sample ID: GW-101315-TP-021
Lab Sample ID: 240-56546-1
Date Collected: 10/13/15 10:03
Matrix: Water
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	202894	10/21/15 21:59	RJQ	TAL CAN

Client Sample ID: GW-101315-TP-022
Lab Sample ID: 240-56546-2
Date Collected: 10/13/15 11:02
Matrix: Water
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		40	202894	10/21/15 13:43	RJQ	TAL CAN

Client Sample ID: GW-101315-TP-023
Lab Sample ID: 240-56546-3
Date Collected: 10/13/15 12:12
Matrix: Water
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		250	202894	10/21/15 22:24	RJQ	TAL CAN

Client Sample ID: GW-101315-TP-024
Lab Sample ID: 240-56546-4
Date Collected: 10/13/15 13:12
Matrix: Water
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	202894	10/21/15 22:48	RJQ	TAL CAN

Client Sample ID: GW-101315-TP-025
Lab Sample ID: 240-56546-5
Date Collected: 10/13/15 13:20
Matrix: Water
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	202896	10/21/15 21:52	RJQ	TAL CAN

Client Sample ID: GW-101315-TP-026
Lab Sample ID: 240-56546-6
Date Collected: 10/13/15 14:17
Matrix: Water
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		83.33	202896	10/21/15 22:15	RJQ	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-2

Client Sample ID: RB-101315-TP-003

Lab Sample ID: 240-56546-7
Matrix: Water
Date Collected: 10/13/15 14:40
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202896	10/21/15 21:29	RJQ	TAL CAN

Client Sample ID: GW-101315-TP-027

Lab Sample ID: 240-56546-8
Matrix: Water
Date Collected: 10/13/15 15:23
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		40	202896	10/21/15 17:41	RJQ	TAL CAN

Client Sample ID: TB-101315-TP-002

Lab Sample ID: 240-56546-9
Matrix: Water
Date Collected: 10/13/15 16:00
Date Received: 10/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	202896	10/21/15 18:04	RJQ	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56546-2

Laboratory: TestAmerica Canton

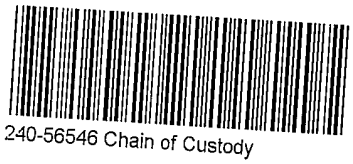
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	10-30-15 *
New York	NELAP	2	10975	03-31-16
Ohio VAP	State Program	5	CL0024	10-31-15 *
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



3.6/C2.1

CHAIN OF CUSTODY RECORD

COC NO.: IN- 03575

PAGE 1 OF 1

(See Reverse Side for Instructions)

CONESTOGA-ROVERS & ASSOCIATES
6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

Project No/ Phase/Task Code: 07302/T07/CRA15	Laboratory Name: Test America	Lab Location: North Canton, OH	SSOW ID: 17302-T07
Project Name: Racer MLK	Lab Contact: Denise Heckler	Lab Quote No: Lab PO#: 7400714 3	Cooler No: 1 of 2
Project Location: Anderson, IN			Carrier: FedEx
Chemistry Contact: Deb Andraska			Airbill No: 6443 7561 2870
Sampler(s): Tim Prenger			Date Shipped: 10/13/15

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOCs	0.2SS Gases	TOC, DOC*	Sulfide	Chloride, Sulfate	Nitrate, Nitrite	Hardness	Alkalinity, Carbonate	0.45S Manganese*	MS/MSD Request
1	GW-101315-TP-021	10/13/15	10:03	GW	G		6		4					10	X	X	X							
2	-022		11:02				15		8					23	X	X	X							MS/MSD
3	-023		12:12				6		4					10	X	X	X							
4	-024		13:17				6		4					10	X	X	X							
5	-025		13:20				6		4					10	X	X	X							
6	GW-101315-TP-026		14:17	GW	G	2	6	2	4				1	15	X	X	X	X	X	X	X	X	X	
7	RB-101315-TP-003		14:40	WQ			3							3	X									
8	GW-101315-TP-027		15:23	GW	G	2	6	2	4				1	15	X	X	X	X	X	X	X	X	X	
9	TB-101315-TP-002	10/13/15	16:00	WQ	G		1							1	X									
10																								
11																								
12																								
13																								
14																								
15																								

* DOC, 0.2SS Manganese Field Filtered

TAT Required in business days (use separate COCs for different TATs):

☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 97

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	GHD	10/13/15	1700	1.	TA	10/14/15	0900
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

10/27/2015

3.6/C2.1

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN-03576
PAGE 1 OF 2
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302/T07/CRA15	Laboratory Name: Test America	Lab Location: North Canton, OH	SSOW ID: 17302-T07
Project Name: Race MLK	Lab Contact: Denise Heckler	Lab Quote No: Lab PS# 24007143	Cooler No: 2 of 2
Project Location: Anderson, IN			Carrier: FedEx
Chemistry Contact: Deb Androsko			Airbill No: 6443 7561 2870
Sampler(s): Tim Prunger			Date Shipped: 10/13/15

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: Sulfide	Chloride, Sulfate	Nitrate, Nitrite	Hardness	Alk. Calc. CaCO3	Diss. Manganese*	MS/MSD Request	Comments/ Special Instructions:
1	GW-101315-TP-021	10/13/15	10:03	WG	G	2		2					1	5	X	X	X	X	X	X		
2	-022		11:02			4		4					2	10	X	X	X	X	X	X		MS/MSD
3	-023		12:12			2		2					1	5	X	X	X	X	X	X		
4	-024		13:12			2		2					1	5	X	X	X	X	X	X		
5	GW-101315-TP-025	10/13/15	13:20	WG	G	2		2					1	5	X	X	X	X	X	X		
6																						
7																						* Diss. Manganese Field Filtered
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 30

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	GHD	10/13/15	1700	1.	TA	10/14/15	1000
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

Page 30 of 32

10/27/2015

TestAmerica Canton Sample Receipt Form/Narrative Login # : 9V5416
Canton Facility

Client CRA Site Name

Cooler unpacked by: Alex Cuter

Cooler Received on 10/14/15 Opened on 10/14/15

FedEx: 1st Grd ~~Exp~~ UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

~~IR GUN# A (CF +1.0 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

☐ See Multiple Cooler Form

IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. 3.6 °C Corrected Cooler Temp. 2.1 °C

2.	Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
	-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
	-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
3.	Shippers' packing slip attached to the cooler(s)?	Yes	No
4.	Did custody papers accompany the sample(s)?	Yes	No
5.	Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6.	Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7.	Did all bottles arrive in good condition (Unbroken)?	Yes	No
8.	Could all bottle labels be reconciled with the COC?	Yes	No
9.	Were correct bottle(s) used for the test(s) indicated?	Yes	No
10.	Sufficient quantity received to perform indicated analyses?	Yes	No
11.	Were sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC554612
12.	Were VOAs on the COC?	Yes	No
13.	Were air bubbles >6 mm in any VOA vials?	Yes	No NA
14.	Was a trip blank present in the cooler(s)? Trip Blank Lot #	Yes	No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: Alex Cuter

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101315-TP-021	240-56546-B-1	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-021	240-56546-D-1	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-021	240-56546-E-1	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101315-TP-022	240-56546-C-2	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-022	240-56546-D-2	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-022	240-56546-G-2	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-022	240-56546-H-2	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-022	240-56546-I-2	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101315-TP-022	240-56546-J-2	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101315-TP-023	240-56546-B-3	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-023	240-56546-D-3	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-023	240-56546-E-3	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101315-TP-024	240-56546-B-4	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-024	240-56546-D-4	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-024	240-56546-E-4	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101315-TP-025	240-56546-B-5	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-025	240-56546-D-5	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-025	240-56546-E-5	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101315-TP-026	240-56546-B-6	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-026	240-56546-D-6	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-026	240-56546-E-6	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101315-TP-027	240-56546-B-8	Plastic 250ml - with Nitric Acid	<2		
GW-101315-TP-027	240-56546-D-8	Plastic 500ml - with Nitric Acid	<2		
GW-101315-TP-027	240-56546-E-8	Plastic 1 liter - Zn Acetate and NaO	>9		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-56645-1
Client Project/Site: 17302-T07, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
10/25/2015 12:07:27 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-56645-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 17302-T07, RACER Delphi Anderson

Report Number: 240-56645-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 10/15/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.3º C and 1.7º C.

DISSOLVED GASES

Samples GW-101415-TP-028 (240-56645-1), GW-101415-TP-029 (240-56645-2), GW-101415-TP-030 (240-56645-3), GW-101415-TP-031 (240-56645-4) and GW-101415-TP-032 (240-56645-5) were analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 10/22/2015 and 10/23/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)

Samples GW-101415-TP-028 (240-56645-1), GW-101415-TP-029 (240-56645-2), GW-101415-TP-030 (240-56645-3), GW-101415-TP-031 (240-56645-4) and GW-101415-TP-032 (240-56645-5) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 10/16/2015 and analyzed on 10/18/2015 and 10/21/2015.

Manganese was detected in method blank MB 240-202284/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL

Job ID: 240-56645-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ALKALINITY
Samples GW-101415-TP-028 (240-56645-1), GW-101415-TP-029 (240-56645-2), GW-101415-TP-030 (240-56645-3), GW-101415-TP-031 (240-56645-4) and GW-101415-TP-032 (240-56645-5) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 10/21/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HARDNESS
Samples GW-101415-TP-028 (240-56645-1), GW-101415-TP-029 (240-56645-2), GW-101415-TP-030 (240-56645-3), GW-101415-TP-031 (240-56645-4) and GW-101415-TP-032 (240-56645-5) were analyzed for hardness in accordance with SM 2340C. The samples were analyzed on 10/20/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS
Samples GW-101415-TP-028 (240-56645-1), GW-101415-TP-029 (240-56645-2), GW-101415-TP-030 (240-56645-3), GW-101415-TP-031 (240-56645-4) and GW-101415-TP-032 (240-56645-5) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 10/15/2015 and 10/22/2015.

Sample GW-101415-TP-029 (240-56645-2)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE
Samples GW-101415-TP-028 (240-56645-1), GW-101415-TP-029 (240-56645-2), GW-101415-TP-030 (240-56645-3), GW-101415-TP-031 (240-56645-4) and GW-101415-TP-032 (240-56645-5) were analyzed for sulfide in accordance with EPA SW-846 Method 9034. The samples were prepared and analyzed on 10/16/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON
Samples GW-101415-TP-028 (240-56645-1), GW-101415-TP-029 (240-56645-2), GW-101415-TP-030 (240-56645-3), GW-101415-TP-031 (240-56645-4) and GW-101415-TP-032 (240-56645-5) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 10/17/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED ORGANIC CARBON
Samples GW-101415-TP-028 (240-56645-1), GW-101415-TP-029 (240-56645-2), GW-101415-TP-030 (240-56645-3), GW-101415-TP-031 (240-56645-4) and GW-101415-TP-032 (240-56645-5) were analyzed for dissolved organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 10/20/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
2340C-1997	Hardness, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CAN
9060	Organic Carbon, Dissolved (DOC)	SW846	TAL CAN
9060	Organic Carbon, Total (TOC)	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-56645-1	GW-101415-TP-028	Water	10/14/15 09:52	10/15/15 09:30
240-56645-2	GW-101415-TP-029	Water	10/14/15 10:48	10/15/15 09:30
240-56645-3	GW-101415-TP-030	Water	10/14/15 14:12	10/15/15 09:30
240-56645-4	GW-101415-TP-031	Water	10/14/15 15:07	10/15/15 09:30
240-56645-5	GW-101415-TP-032	Water	10/14/15 17:07	10/15/15 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-1

Client Sample ID: GW-101415-TP-028 — Lab Sample ID: 240-56645-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	2.7		0.50	0.080	ug/L	1		RSK-175	Total/NA
Manganese	200	B	15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	350		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	430		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	47		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	56		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	7.5		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	7.1		1.0	0.080	mg/L	1		9060	Dissolved

Client Sample ID: GW-101415-TP-029 — Lab Sample ID: 240-56645-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	160		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethane	30		0.50	0.14	ug/L	1		RSK-175	Total/NA
Ethylene	85		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	660	B	15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	450		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	580		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	18		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	210		2.0	0.26	mg/L	2		300.0	Total/NA
Total Organic Carbon	2.3		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	2.5		1.0	0.080	mg/L	1		9060	Dissolved

Client Sample ID: GW-101415-TP-030 — Lab Sample ID: 240-56645-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	860		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethane	59		0.50	0.14	ug/L	1		RSK-175	Total/NA
Ethylene	1400		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	730	B	15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	620		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	600		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	90		1.0	0.41	mg/L	1		300.0	Total/NA
Nitrate as N	0.045	J	0.10	0.035	mg/L	1		300.0	Total/NA
Sulfate	11		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	11		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	10		1.0	0.080	mg/L	1		9060	Dissolved

Client Sample ID: GW-101415-TP-031 — Lab Sample ID: 240-56645-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	18		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethane	1.6		0.50	0.14	ug/L	1		RSK-175	Total/NA
Ethylene	2.4		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	510	B	15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	370		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	390		5.0	3.1	mg/L	1		2340C-1997	Total/NA
Chloride	8.8		1.0	0.41	mg/L	1		300.0	Total/NA
Nitrite as N	0.24		0.10	0.038	mg/L	1		300.0	Total/NA
Nitrate as N	1.7		0.10	0.035	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-101415-TP-031 (Continued)

Lab Sample ID: 240-56645-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	67		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	4.0		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	4.0		1.0	0.080	mg/L	1		9060	Dissolved

Client Sample ID: GW-101415-TP-032

Lab Sample ID: 240-56645-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	13		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethane	7.4		0.50	0.14	ug/L	1		RSK-175	Total/NA
Ethylene	1.9		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	390	B	15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	390		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	4.2	J	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	400		5.0	3.1	mg/L	1		2340C-1997	Total/NA
Chloride	15		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	76		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	2.5		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	5.5		1.0	0.080	mg/L	1		9060	Dissolved

This Detection Summary does not include radiochemical test results.

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-101415-TP-028
Date Collected: 10/14/15 09:52
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**2.7**		0.50	0.080	ug/L			10/22/15 23:55	1
Ethane	0.50	U	0.50	0.14	ug/L			10/22/15 23:55	1
Ethylene	0.50	U	0.50	0.13	ug/L			10/22/15 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*93*		*66 - 132*		*10/22/15 23:55*	*1*

Client Sample ID: GW-101415-TP-029
Date Collected: 10/14/15 10:48
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**160**		0.50	0.080	ug/L			10/23/15 00:10	1
Ethane	**30**		0.50	0.14	ug/L			10/23/15 00:10	1
Ethylene	**85**		0.50	0.13	ug/L			10/23/15 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*92*		*66 - 132*		*10/23/15 00:10*	*1*

Client Sample ID: GW-101415-TP-030
Date Collected: 10/14/15 14:12
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**860**		0.50	0.080	ug/L			10/23/15 00:26	1
Ethane	**59**		0.50	0.14	ug/L			10/23/15 00:26	1
Ethylene	**1400**		0.50	0.13	ug/L			10/23/15 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*93*		*66 - 132*		*10/23/15 00:26*	*1*

Client Sample ID: GW-101415-TP-031
Date Collected: 10/14/15 15:07
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**18**		0.50	0.080	ug/L			10/23/15 00:42	1
Ethane	**1.6**		0.50	0.14	ug/L			10/23/15 00:42	1
Ethylene	**2.4**		0.50	0.13	ug/L			10/23/15 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*93*		*66 - 132*		*10/23/15 00:42*	*1*

Client Sample ID: GW-101415-TP-032
Date Collected: 10/14/15 17:07
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**13**		0.50	0.080	ug/L			10/23/15 00:57	1
Ethane	**7.4**		0.50	0.14	ug/L			10/23/15 00:57	1
Ethylene	**1.9**		0.50	0.13	ug/L			10/23/15 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*92*		*66 - 132*		*10/23/15 00:57*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-101415-TP-028
Date Collected: 10/14/15 09:52
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	200	B	15	0.46	ug/L		10/16/15 11:52	10/21/15 02:20	1

Client Sample ID: GW-101415-TP-029
Date Collected: 10/14/15 10:48
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	660	B	15	0.46	ug/L		10/16/15 11:52	10/18/15 21:54	1

Client Sample ID: GW-101415-TP-030
Date Collected: 10/14/15 14:12
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	730	B	15	0.46	ug/L		10/16/15 11:52	10/18/15 21:58	1

Client Sample ID: GW-101415-TP-031
Date Collected: 10/14/15 15:07
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	510	B	15	0.46	ug/L		10/16/15 11:52	10/18/15 22:02	1

Client Sample ID: GW-101415-TP-032
Date Collected: 10/14/15 17:07
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	390	B	15	0.46	ug/L		10/16/15 11:52	10/18/15 22:06	1

General Chemistry

Client Sample ID: GW-101415-TP-028
Date Collected: 10/14/15 09:52
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**350**		5.0	1.9	mg/L			10/21/15 14:59	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/21/15 14:59	1
Hardness as calcium carbonate	**430**		25	16	mg/L			10/20/15 12:20	1
Chloride	**47**		1.0	0.41	mg/L			10/15/15 19:49	1
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/15/15 19:49	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			10/15/15 19:49	1
Sulfate	**56**		1.0	0.13	mg/L			10/15/15 19:49	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/16/15 08:00	10/16/15 12:31	1
Total Organic Carbon	**7.5**		1.0	0.080	mg/L			10/17/15 03:38	1

Client Sample ID: GW-101415-TP-029
Date Collected: 10/14/15 10:48
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**450**		5.0	1.9	mg/L			10/21/15 15:13	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/21/15 15:13	1
Hardness as calcium carbonate	**580**		25	16	mg/L			10/20/15 12:20	1
Chloride	**18**		1.0	0.41	mg/L			10/15/15 20:06	1
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/15/15 20:06	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			10/15/15 20:06	1
Sulfate	**210**		2.0	0.26	mg/L			10/22/15 16:53	2
Sulfide	3.0	U	3.0	0.94	mg/L		10/16/15 08:00	10/16/15 12:37	1
Total Organic Carbon	**2.3**		1.0	0.080	mg/L			10/17/15 00:50	1

Client Sample ID: GW-101415-TP-030
Date Collected: 10/14/15 14:12
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**620**		5.0	1.9	mg/L			10/21/15 15:31	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/21/15 15:31	1
Hardness as calcium carbonate	**600**		25	16	mg/L			10/20/15 12:20	1
Chloride	**90**		1.0	0.41	mg/L			10/15/15 20:55	1
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/15/15 20:55	1
Nitrate as N	**0.045**	**J**	0.10	0.035	mg/L			10/15/15 20:55	1
Sulfate	**11**		1.0	0.13	mg/L			10/15/15 20:55	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/16/15 08:00	10/16/15 12:43	1
Total Organic Carbon	**11**		1.0	0.080	mg/L			10/17/15 02:21	1

Client Sample ID: GW-101415-TP-031
Date Collected: 10/14/15 15:07
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**370**		5.0	1.9	mg/L			10/21/15 15:45	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/21/15 15:45	1
Hardness as calcium carbonate	**390**		5.0	3.1	mg/L			10/20/15 12:20	1
Chloride	**8.8**		1.0	0.41	mg/L			10/15/15 21:11	1
Nitrite as N	**0.24**		0.10	0.038	mg/L			10/15/15 21:11	1
Nitrate as N	**1.7**		0.10	0.035	mg/L			10/15/15 21:11	1
Sulfate	**67**		1.0	0.13	mg/L			10/15/15 21:11	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/16/15 08:00	10/16/15 12:48	1

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-1

General Chemistry (Continued)

Client Sample ID: GW-101415-TP-031
Date Collected: 10/14/15 15:07
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**4.0**		1.0	0.080	mg/L			10/17/15 04:34	1

Client Sample ID: GW-101415-TP-032
Date Collected: 10/14/15 17:07
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**390**		5.0	1.9	mg/L			10/21/15 15:58	1
Carbonate Alkalinity as CaCO3	**4.2**	**J**	5.0	1.9	mg/L			10/21/15 15:58	1
Hardness as calcium carbonate	**400**		5.0	3.1	mg/L			10/20/15 12:20	1
Chloride	**15**		1.0	0.41	mg/L			10/15/15 21:28	1
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/15/15 21:28	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			10/15/15 21:28	1
Sulfate	**76**		1.0	0.13	mg/L			10/15/15 21:28	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/16/15 08:00	10/16/15 12:54	1
Total Organic Carbon	**2.5**		1.0	0.080	mg/L			10/17/15 05:11	1

General Chemistry - Dissolved

Client Sample ID: GW-101415-TP-028
Date Collected: 10/14/15 09:52
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	7.1		1.0	0.080	mg/L			10/20/15 09:36	1

Client Sample ID: GW-101415-TP-029
Date Collected: 10/14/15 10:48
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.5		1.0	0.080	mg/L			10/20/15 10:12	1

Client Sample ID: GW-101415-TP-030
Date Collected: 10/14/15 14:12
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	10		1.0	0.080	mg/L			10/20/15 10:49	1

Client Sample ID: GW-101415-TP-031
Date Collected: 10/14/15 15:07
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	4.0		1.0	0.080	mg/L			10/20/15 11:26	1

Client Sample ID: GW-101415-TP-032
Date Collected: 10/14/15 17:07
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	5.5		1.0	0.080	mg/L			10/20/15 12:22	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-1

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	rifluoroet (66-132)
240-56645-1	GW-101415-TP-028	93
240-56645-2	GW-101415-TP-029	92
240-56645-3	GW-101415-TP-030	93
240-56645-4	GW-101415-TP-031	93
240-56645-5	GW-101415-TP-032	92
LCS 240-203202/24	Lab Control Sample	88
MB 240-203202/23	Method Blank	89

Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-203202/23
Matrix: Water
Analysis Batch: 203202

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.50	U	0.50	0.080	ug/L			10/22/15 23:23	1
Ethane	0.50	U	0.50	0.14	ug/L			10/22/15 23:23	1
Ethylene	0.50	U	0.50	0.13	ug/L			10/22/15 23:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*89*		*66 - 132*		*10/22/15 23:23*	*1*

Lab Sample ID: LCS 240-203202/24
Matrix: Water
Analysis Batch: 203202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	199	212		ug/L		107	76 - 120
Ethane	374	362		ug/L		97	80 - 120
Ethylene	349	339		ug/L		97	81 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*88*		*66 - 132*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-202284/1-A
Matrix: Water
Analysis Batch: 202498

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 202284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.57	J	15	0.46	ug/L		10/16/15 11:52	10/18/15 21:02	1

Lab Sample ID: LCS 240-202284/2-A
Matrix: Water
Analysis Batch: 202498

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 202284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	455		ug/L		91	80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-203160/38
Matrix: Water
Analysis Batch: 203160

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/21/15 14:29	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/21/15 14:29	1

Method: 2320B-1997 - Alkalinity, Total (Continued)

Lab Sample ID: MB 240-203160/5
Matrix: Water
Analysis Batch: 203160

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/21/15 08:21	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/21/15 08:21	1

Lab Sample ID: 240-56645-1 DU
Matrix: Water
Analysis Batch: 203160

Client Sample ID: GW-101415-TP-028
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	350		351		mg/L		0.9	20
Carbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L		NC	20

Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-202743/1
Matrix: Water
Analysis Batch: 202743

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	5.0	U	5.0	3.1	mg/L			10/20/15 12:20	1

Lab Sample ID: LCS 240-202743/2
Matrix: Water
Analysis Batch: 202743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	170	179		mg/L		105	88 - 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-202026/33
Matrix: Water
Analysis Batch: 202026

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			10/15/15 17:38	1
Sulfate	1.0	U	1.0	0.13	mg/L			10/15/15 17:38	1

Lab Sample ID: LCS 240-202026/34
Matrix: Water
Analysis Batch: 202026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	54.1		mg/L		108	90 - 110
Sulfate	50.0	50.4		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-202027/33
Matrix: Water
Analysis Batch: 202027

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/15/15 17:38	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			10/15/15 17:38	1

Lab Sample ID: LCS 240-202027/34
Matrix: Water
Analysis Batch: 202027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.51		mg/L		100	90 - 110
Nitrate as N	2.50	2.59		mg/L		104	90 - 110

Lab Sample ID: MB 240-203107/4
Matrix: Water
Analysis Batch: 203107

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.13	mg/L			10/22/15 10:55	1

Lab Sample ID: LCS 240-203107/5
Matrix: Water
Analysis Batch: 203107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	52.8		mg/L		106	90 - 110

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-202207/1-A
Matrix: Water
Analysis Batch: 202282

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	0.94	mg/L		10/16/15 08:00	10/16/15 11:40	1

Lab Sample ID: LCS 240-202207/2-A
Matrix: Water
Analysis Batch: 202282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	8.53	7.73		mg/L		91	70 - 130

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-202354/37
Matrix: Water
Analysis Batch: 202354

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.080	mg/L			10/17/15 00:20	1

Lab Sample ID: LCS 240-202354/39
Matrix: Water
Analysis Batch: 202354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	69.3	69.4		mg/L		100	88 - 115

Lab Sample ID: LLCS 240-202354/38
Matrix: Water
Analysis Batch: 202354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	6.93	7.20		mg/L		104	88 - 115

Lab Sample ID: 240-56645-2 MS
Matrix: Water
Analysis Batch: 202354

Client Sample ID: GW-101415-TP-029
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.3		25.0	26.6		mg/L		97	72 - 136

Lab Sample ID: 240-56645-2 MSD
Matrix: Water
Analysis Batch: 202354

Client Sample ID: GW-101415-TP-029
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.3		25.0	26.5		mg/L		97	72 - 136	1	20

Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-202834/4
Matrix: Water
Analysis Batch: 202834

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.0	U	1.0	0.080	mg/L			10/20/15 08:11	1

Lab Sample ID: LCS 240-202834/6
Matrix: Water
Analysis Batch: 202834

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	69.3	70.0		mg/L		101	88 - 115

Lab Sample ID: LLCS 240-202834/5
Matrix: Water
Analysis Batch: 202834

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	6.93	7.00		mg/L		101	88 - 115

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-1

GC VOA

Analysis Batch: 203202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-1	GW-101415-TP-028	Total/NA	Water	RSK-175	
240-56645-2	GW-101415-TP-029	Total/NA	Water	RSK-175	
240-56645-3	GW-101415-TP-030	Total/NA	Water	RSK-175	
240-56645-4	GW-101415-TP-031	Total/NA	Water	RSK-175	
240-56645-5	GW-101415-TP-032	Total/NA	Water	RSK-175	
LCS 240-203202/24	Lab Control Sample	Total/NA	Water	RSK-175	
MB 240-203202/23	Method Blank	Total/NA	Water	RSK-175	

Metals

Prep Batch: 202284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-1	GW-101415-TP-028	Dissolved	Water	3005A	
240-56645-2	GW-101415-TP-029	Dissolved	Water	3005A	
240-56645-3	GW-101415-TP-030	Dissolved	Water	3005A	
240-56645-4	GW-101415-TP-031	Dissolved	Water	3005A	
240-56645-5	GW-101415-TP-032	Dissolved	Water	3005A	
LCS 240-202284/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-202284/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 202498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-2	GW-101415-TP-029	Dissolved	Water	6010B	202284
240-56645-3	GW-101415-TP-030	Dissolved	Water	6010B	202284
240-56645-4	GW-101415-TP-031	Dissolved	Water	6010B	202284
240-56645-5	GW-101415-TP-032	Dissolved	Water	6010B	202284
LCS 240-202284/2-A	Lab Control Sample	Total Recoverable	Water	6010B	202284
MB 240-202284/1-A	Method Blank	Total Recoverable	Water	6010B	202284

Analysis Batch: 202778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-1	GW-101415-TP-028	Dissolved	Water	6010B	202284

General Chemistry

Analysis Batch: 202026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-1	GW-101415-TP-028	Total/NA	Water	300.0	
240-56645-2	GW-101415-TP-029	Total/NA	Water	300.0	
240-56645-3	GW-101415-TP-030	Total/NA	Water	300.0	
240-56645-4	GW-101415-TP-031	Total/NA	Water	300.0	
240-56645-5	GW-101415-TP-032	Total/NA	Water	300.0	
LCS 240-202026/34	Lab Control Sample	Total/NA	Water	300.0	
MB 240-202026/33	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 202027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-1	GW-101415-TP-028	Total/NA	Water	300.0	
240-56645-2	GW-101415-TP-029	Total/NA	Water	300.0	
240-56645-3	GW-101415-TP-030	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 202027 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-4	GW-101415-TP-031	Total/NA	Water	300.0	
240-56645-5	GW-101415-TP-032	Total/NA	Water	300.0	
LCS 240-202027/34	Lab Control Sample	Total/NA	Water	300.0	
MB 240-202027/33	Method Blank	Total/NA	Water	300.0	

Prep Batch: 202207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-1	GW-101415-TP-028	Total/NA	Water	9030B	
240-56645-2	GW-101415-TP-029	Total/NA	Water	9030B	
240-56645-3	GW-101415-TP-030	Total/NA	Water	9030B	
240-56645-4	GW-101415-TP-031	Total/NA	Water	9030B	
240-56645-5	GW-101415-TP-032	Total/NA	Water	9030B	
LCS 240-202207/2-A	Lab Control Sample	Total/NA	Water	9030B	
MB 240-202207/1-A	Method Blank	Total/NA	Water	9030B	

Analysis Batch: 202282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-1	GW-101415-TP-028	Total/NA	Water	9034	202207
240-56645-2	GW-101415-TP-029	Total/NA	Water	9034	202207
240-56645-3	GW-101415-TP-030	Total/NA	Water	9034	202207
240-56645-4	GW-101415-TP-031	Total/NA	Water	9034	202207
240-56645-5	GW-101415-TP-032	Total/NA	Water	9034	202207
LCS 240-202207/2-A	Lab Control Sample	Total/NA	Water	9034	202207
MB 240-202207/1-A	Method Blank	Total/NA	Water	9034	202207

Analysis Batch: 202354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-1	GW-101415-TP-028	Total/NA	Water	9060	
240-56645-2	GW-101415-TP-029	Total/NA	Water	9060	
240-56645-2 MS	GW-101415-TP-029	Total/NA	Water	9060	
240-56645-2 MSD	GW-101415-TP-029	Total/NA	Water	9060	
240-56645-3	GW-101415-TP-030	Total/NA	Water	9060	
240-56645-4	GW-101415-TP-031	Total/NA	Water	9060	
240-56645-5	GW-101415-TP-032	Total/NA	Water	9060	
LCS 240-202354/39	Lab Control Sample	Total/NA	Water	9060	
LLCS 240-202354/38	Lab Control Sample	Total/NA	Water	9060	
MB 240-202354/37	Method Blank	Total/NA	Water	9060	

Analysis Batch: 202743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-1	GW-101415-TP-028	Total/NA	Water	2340C-1997	
240-56645-2	GW-101415-TP-029	Total/NA	Water	2340C-1997	
240-56645-3	GW-101415-TP-030	Total/NA	Water	2340C-1997	
240-56645-4	GW-101415-TP-031	Total/NA	Water	2340C-1997	
240-56645-5	GW-101415-TP-032	Total/NA	Water	2340C-1997	
LCS 240-202743/2	Lab Control Sample	Total/NA	Water	2340C-1997	
MB 240-202743/1	Method Blank	Total/NA	Water	2340C-1997	

Analysis Batch: 202834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-1	GW-101415-TP-028	Dissolved	Water	9060	

General Chemistry (Continued)

Analysis Batch: 202834 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-2	GW-101415-TP-029	Dissolved	Water	9060	
240-56645-3	GW-101415-TP-030	Dissolved	Water	9060	
240-56645-4	GW-101415-TP-031	Dissolved	Water	9060	
240-56645-5	GW-101415-TP-032	Dissolved	Water	9060	
LCS 240-202834/6	Lab Control Sample	Dissolved	Water	9060	
LLCS 240-202834/5	Lab Control Sample	Dissolved	Water	9060	
MB 240-202834/4	Method Blank	Dissolved	Water	9060	

Analysis Batch: 203107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-2	GW-101415-TP-029	Total/NA	Water	300.0	
LCS 240-203107/5	Lab Control Sample	Total/NA	Water	300.0	
MB 240-203107/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 203160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-1	GW-101415-TP-028	Total/NA	Water	2320B-1997	
240-56645-1 DU	GW-101415-TP-028	Total/NA	Water	2320B-1997	
240-56645-2	GW-101415-TP-029	Total/NA	Water	2320B-1997	
240-56645-3	GW-101415-TP-030	Total/NA	Water	2320B-1997	
240-56645-4	GW-101415-TP-031	Total/NA	Water	2320B-1997	
240-56645-5	GW-101415-TP-032	Total/NA	Water	2320B-1997	
MB 240-203160/38	Method Blank	Total/NA	Water	2320B-1997	
MB 240-203160/5	Method Blank	Total/NA	Water	2320B-1997	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-1

Client Sample ID: GW-101415-TP-028

Lab Sample ID: 240-56645-1
Date Collected: 10/14/15 09:52
Matrix: Water
Date Received: 10/15/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	203202	10/22/15 23:55	BPM	TAL CAN
Dissolved	Prep	3005A			202284	10/16/15 11:52	WKD	TAL CAN
Dissolved	Analysis	6010B		1	202778	10/21/15 02:20	WAL	TAL CAN
Total/NA	Analysis	2320B-1997		1	203160	10/21/15 14:59	JMB	TAL CAN
Total/NA	Analysis	2340C-1997		1	202743	10/20/15 12:20	JMB	TAL CAN
Total/NA	Analysis	300.0		1	202026	10/15/15 19:49	LKG	TAL CAN
Total/NA	Analysis	300.0		1	202027	10/15/15 19:49	LKG	TAL CAN
Total/NA	Prep	9030B			202207	10/16/15 08:00	BLW	TAL CAN
Total/NA	Analysis	9034		1	202282	10/16/15 12:31	BLW	TAL CAN
Dissolved	Analysis	9060		1	202834	10/20/15 09:36	TPH	TAL CAN
Total/NA	Analysis	9060		1	202354	10/17/15 03:38	TPH	TAL CAN

Client Sample ID: GW-101415-TP-029

Lab Sample ID: 240-56645-2
Date Collected: 10/14/15 10:48
Matrix: Water
Date Received: 10/15/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	203202	10/23/15 00:10	BPM	TAL CAN
Dissolved	Prep	3005A			202284	10/16/15 11:52	WKD	TAL CAN
Dissolved	Analysis	6010B		1	202498	10/18/15 21:54	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	203160	10/21/15 15:13	JMB	TAL CAN
Total/NA	Analysis	2340C-1997		1	202743	10/20/15 12:20	JMB	TAL CAN
Total/NA	Analysis	300.0		2	203107	10/22/15 16:53	LCN	TAL CAN
Total/NA	Analysis	300.0		1	202026	10/15/15 20:06	LKG	TAL CAN
Total/NA	Analysis	300.0		1	202027	10/15/15 20:06	LKG	TAL CAN
Total/NA	Prep	9030B			202207	10/16/15 08:00	BLW	TAL CAN
Total/NA	Analysis	9034		1	202282	10/16/15 12:37	BLW	TAL CAN
Dissolved	Analysis	9060		1	202834	10/20/15 10:12	TPH	TAL CAN
Total/NA	Analysis	9060		1	202354	10/17/15 00:50	TPH	TAL CAN

Client Sample ID: GW-101415-TP-030

Lab Sample ID: 240-56645-3
Date Collected: 10/14/15 14:12
Matrix: Water
Date Received: 10/15/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	203202	10/23/15 00:26	BPM	TAL CAN
Dissolved	Prep	3005A			202284	10/16/15 11:52	WKD	TAL CAN
Dissolved	Analysis	6010B		1	202498	10/18/15 21:58	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	203160	10/21/15 15:31	JMB	TAL CAN
Total/NA	Analysis	2340C-1997		1	202743	10/20/15 12:20	JMB	TAL CAN
Total/NA	Analysis	300.0		1	202026	10/15/15 20:55	LKG	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-1

Client Sample ID: GW-101415-TP-030

Lab Sample ID: 240-56645-3

Date Collected: 10/14/15 14:12
Matrix: Water
Date Received: 10/15/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	202027	10/15/15 20:55	LKG	TAL CAN
Total/NA	Prep	9030B			202207	10/16/15 08:00	BLW	TAL CAN
Total/NA	Analysis	9034		1	202282	10/16/15 12:43	BLW	TAL CAN
Dissolved	Analysis	9060		1	202834	10/20/15 10:49	TPH	TAL CAN
Total/NA	Analysis	9060		1	202354	10/17/15 02:21	TPH	TAL CAN

Client Sample ID: GW-101415-TP-031

Lab Sample ID: 240-56645-4

Date Collected: 10/14/15 15:07
Matrix: Water
Date Received: 10/15/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	203202	10/23/15 00:42	BPM	TAL CAN
Dissolved	Prep	3005A			202284	10/16/15 11:52	WKD	TAL CAN
Dissolved	Analysis	6010B		1	202498	10/18/15 22:02	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	203160	10/21/15 15:45	JMB	TAL CAN
Total/NA	Analysis	2340C-1997		1	202743	10/20/15 12:20	JMB	TAL CAN
Total/NA	Analysis	300.0		1	202026	10/15/15 21:11	LKG	TAL CAN
Total/NA	Analysis	300.0		1	202027	10/15/15 21:11	LKG	TAL CAN
Total/NA	Prep	9030B			202207	10/16/15 08:00	BLW	TAL CAN
Total/NA	Analysis	9034		1	202282	10/16/15 12:48	BLW	TAL CAN
Dissolved	Analysis	9060		1	202834	10/20/15 11:26	TPH	TAL CAN
Total/NA	Analysis	9060		1	202354	10/17/15 04:34	TPH	TAL CAN

Client Sample ID: GW-101415-TP-032

Lab Sample ID: 240-56645-5

Date Collected: 10/14/15 17:07
Matrix: Water
Date Received: 10/15/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	203202	10/23/15 00:57	BPM	TAL CAN
Dissolved	Prep	3005A			202284	10/16/15 11:52	WKD	TAL CAN
Dissolved	Analysis	6010B		1	202498	10/18/15 22:06	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	203160	10/21/15 15:58	JMB	TAL CAN
Total/NA	Analysis	2340C-1997		1	202743	10/20/15 12:20	JMB	TAL CAN
Total/NA	Analysis	300.0		1	202026	10/15/15 21:28	LKG	TAL CAN
Total/NA	Analysis	300.0		1	202027	10/15/15 21:28	LKG	TAL CAN
Total/NA	Prep	9030B			202207	10/16/15 08:00	BLW	TAL CAN
Total/NA	Analysis	9034		1	202282	10/16/15 12:54	BLW	TAL CAN
Dissolved	Analysis	9060		1	202834	10/20/15 12:22	TPH	TAL CAN
Total/NA	Analysis	9060		1	202354	10/17/15 05:11	TPH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-1

Laboratory: TestAmerica Canton

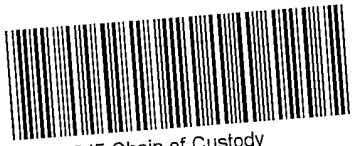
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	10-30-15 *
New York	NELAP	2	10975	03-31-16
Ohio VAP	State Program	5	CL0024	10-31-15 *
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



4101 Shuffel Street, N.W. North Canton, OH 44720 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

1,8/C013

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 03577
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302/T07/CRA15	**Laboratory Name:** Test America	**Lab Location:** North Canton, OH	**SSOW ID:** 17302-T07
Project Name: Racer MLK	**Lab Contact:** Denise Heckler	**Lab Quote No:** Lab PS#: 2400 7143	**Cooler No:** 1 of 2
Project Location: Anderson, IN			**Carrier:** FedEx
Chemistry Contact: Deb Andrasko			**Airbill No:** 6443 7561 2804
Sampler(s): Tim Prange			**Date Shipped:** 10/14/15

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOCs	Oil & Grease	TOC	DOC	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
1	GW-101415-TP-028	10/14/15	9:52	GW	G		6		4					10	X	X	X	X		
2	-029		10:48				6		4					10	X	X	X	X		
3	-030		14:12				6		4					10	X	X	X	X		
4	-031		15:07				6		4					10	X	X	X	X		
5	GW-101415-TP-032	10/14/15	17:07	GW			6		4					10	X	X	X	X		
6	TB-101415-TP-003	10/14/15	17:30	GW	G		1							1	X					
7																				
8																				
9																				
10																				* Field Filtered
11																				
12																				
13																				
14																				
15																				

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 51
All Samples in Cooler must be on COC

Notes/ Special Requirements:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
1.	GHD	10/14/15	1800	1. Alex Colon	TA	10/15/15	930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

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10/25/2015

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CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 03940
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302/T07/CRA15	**Laboratory Name:** Test America	**Lab Location:** North Canton, OH	**SSOW ID:** 17302-T07
Project Name: Racer MLK	**Lab Contact:** Denise Heckler	**Lab Quote No:** Lab PO#: 24007143	**Cooler No:** on separate 2 of 2 FedEx label
Project Location: Anderson, IN			**Carrier:** FedEx
Chemistry Contact: Deb Andrasko			**Airbill No:** 6443 7561 2790
Sampler(s): Tim Prunger			**Date Shipped:** 10/14/15

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Sulfide	Alk (Carb+Bicarb)	Hardness	Chloride, Sulfate	Nitrate, Nitrite	Dissolved Manganese					MS/MSD Request	Comments/ Special Instructions:
1	GW-101415-TP-028	10/14/15	9:52	WG	G	2		2					1	5	X	X	X	X	X	X						
2	-029		10:48			2		2					1	5	X	X	X	X	X	X						
3	-030		14:12			2		2					1	5	X	X	X	X	X	X						
4	-031		15:07			2		2					1	5	X	X	X	X	X	X						
5	GW-101415-TP-032	10/14/15	17:07	WG	G	2		2					1	5	X	X	X	X	X	X						
6																										
7																										* Field Filtered
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 25

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	GHD	10/14/15	1800	1.	TA	10/15/15	0950
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

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10/25/2015

14 13 12 11 10 9 8 7 6 5 4 3 2 1

TestAmerica Canton Sample Receipt Form/Narrative Login # : 50054
Canton Facility

Client CRA Site Name _____ Cooler unpacked by: Alex Cedeno

Cooler Received on 10/13/15 Opened on 10/13/15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A (CF +1.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~

☐ See Multiple Cooler Form

IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. 1.7 °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Were sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC554612
12. Were VOAs on the COC?	Yes	No
13. Were air bubbles >6 mm in any VOA vials?	Yes	No NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica Multiple Cooler Receipt Form/Narrative **Login # :** 50645

Canton Facility

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Client	8	1.8	0.3	DCE
2	2	3.2	1.7	2

X:\X-Drive Document Control\SOPs\Work Instructions\Word Version Work Instructions\WI-NC-099H-071615 Cooler Receipt Form_page 2 - Multiple Coolers.doc rls

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101415-TP-028	240-56645-L-1	Plastic 250ml - with Nitric Acid	<2		
GW-101415-TP-028	240-56645-N-1	Plastic 500ml - with Nitric Acid	<2		
GW-101415-TP-028	240-56645-O-1	Plastic 500ml - with Zn Acetate and	>9		
GW-101415-TP-029	240-56645-L-2	Plastic 250ml - with Nitric Acid	<2		
GW-101415-TP-029	240-56645-N-2	Plastic 500ml - with Nitric Acid	<2		
GW-101415-TP-029	240-56645-O-2	Plastic 500ml - with Zn Acetate and	>9		
GW-101415-TP-030	240-56645-L-3	Plastic 250ml - with Nitric Acid	<2		
GW-101415-TP-030	240-56645-N-3	Plastic 500ml - with Nitric Acid	<2		
GW-101415-TP-030	240-56645-O-3	Plastic 500ml - with Zn Acetate and	>9		
GW-101415-TP-031	240-56645-L-4	Plastic 250ml - with Nitric Acid	<2		
GW-101415-TP-031	240-56645-N-4	Plastic 500ml - with Nitric Acid	<2		
GW-101415-TP-031	240-56645-O-4	Plastic 500ml - with Zn Acetate and	>9		
GW-101415-TP-032	240-56645-L-5	Plastic 250ml - with Nitric Acid	<2		
GW-101415-TP-032	240-56645-N-5	Plastic 500ml - with Nitric Acid	<2		
GW-101415-TP-032	240-56645-O-5	Plastic 500ml - with Zn Acetate and	>9		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-56645-2
Client Project/Site: 17302-T07, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
10/28/2015 2:02:17 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-56645-2

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 17302-T07, RACER Delphi Anderson

Report Number: 240-56645-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 10/15/2015; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.3º C and 1.7º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GW-101415-TP-028 (240-56645-1), GW-101415-TP-029 (240-56645-2), GW-101415-TP-030 (240-56645-3), GW-101415-TP-031 (240-56645-4), GW-101415-TP-032 (240-56645-5) and TB-101415-TP-003 (240-56645-6) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/23/2015 and 10/24/2015.

Acetone was detected in method blank MB 240-203314/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Methylene Chloride was detected in method blank MB 240-203365/6 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Acetone was detected in method blank MB 240-203365/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL,

Job ID: 240-56645-2 (Continued)

Laboratory: TestAmerica Canton (Continued)

the result has been flagged.

Trichloroethene failed the recovery criteria low for the MS of sample GW-101415-TP-031MS (240-56645-4) in batch 240-203365.

Samples GW-101415-TP-029 (240-56645-2)[200X], GW-101415-TP-030 (240-56645-3)[250X], GW-101415-TP-031 (240-56645-4) [142.86X] and GW-101415-TP-032 (240-56645-5)[166.67X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-56645-1	GW-101415-TP-028	Water	10/14/15 09:52	10/15/15 09:30
240-56645-2	GW-101415-TP-029	Water	10/14/15 10:48	10/15/15 09:30
240-56645-3	GW-101415-TP-030	Water	10/14/15 14:12	10/15/15 09:30
240-56645-4	GW-101415-TP-031	Water	10/14/15 15:07	10/15/15 09:30
240-56645-5	GW-101415-TP-032	Water	10/14/15 17:07	10/15/15 09:30
240-56645-6	TB-101415-TP-003	Water	10/14/15 17:30	10/15/15 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-2

Client Sample ID: GW-101415-TP-028 — Lab Sample ID: 240-56645-1

No Detections.

Client Sample ID: GW-101415-TP-029 — Lab Sample ID: 240-56645-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4800		200	52	ug/L	200		8260B	Total/NA
Trichloroethene	420		200	44	ug/L	200		8260B	Total/NA
Vinyl chloride	1500		200	58	ug/L	200		8260B	Total/NA

Client Sample ID: GW-101415-TP-030 — Lab Sample ID: 240-56645-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	290		250	75	ug/L	250		8260B	Total/NA
cis-1,2-Dichloroethene	6600		250	65	ug/L	250		8260B	Total/NA
Ethylbenzene	410		250	63	ug/L	250		8260B	Total/NA
Toluene	790		250	58	ug/L	250		8260B	Total/NA
Vinyl chloride	1700		250	73	ug/L	250		8260B	Total/NA
Xylenes, Total	650		500	130	ug/L	250		8260B	Total/NA

Client Sample ID: GW-101415-TP-031 — Lab Sample ID: 240-56645-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	360		140	63	ug/L	142.86		8260B	Total/NA
1,1-Dichloroethane	100	J	140	43	ug/L	142.86		8260B	Total/NA
Acetone	190	J B	1400	130	ug/L	142.86		8260B	Total/NA
cis-1,2-Dichloroethene	1400		140	37	ug/L	142.86		8260B	Total/NA
Methylene Chloride	180	B	140	47	ug/L	142.86		8260B	Total/NA
Trichloroethene	5100	F1	140	31	ug/L	142.86		8260B	Total/NA
Vinyl chloride	62	J	140	41	ug/L	142.86		8260B	Total/NA

Client Sample ID: GW-101415-TP-032 — Lab Sample ID: 240-56645-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	380		170	73	ug/L	166.67		8260B	Total/NA
1,1-Dichloroethane	110	J	170	50	ug/L	166.67		8260B	Total/NA
cis-1,2-Dichloroethene	4400		170	43	ug/L	166.67		8260B	Total/NA
Methylene Chloride	230	B	170	55	ug/L	166.67		8260B	Total/NA
Trichloroethene	3000		170	37	ug/L	166.67		8260B	Total/NA
Vinyl chloride	94	J	170	48	ug/L	166.67		8260B	Total/NA

Client Sample ID: TB-101415-TP-003 — Lab Sample ID: 240-56645-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.60	J	10	0.53	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: GW-101415-TP-028
Date Collected: 10/14/15 09:52
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/23/15 20:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/23/15 20:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/23/15 20:54	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/23/15 20:54	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/23/15 20:54	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/23/15 20:54	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/23/15 20:54	1
2-Hexanone	10	U	10	0.48	ug/L			10/23/15 20:54	1
Acetone	10	U	10	0.94	ug/L			10/23/15 20:54	1
Benzene	1.0	U	1.0	0.35	ug/L			10/23/15 20:54	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/23/15 20:54	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/23/15 20:54	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/23/15 20:54	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/23/15 20:54	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/23/15 20:54	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/23/15 20:54	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/23/15 20:54	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/23/15 20:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/23/15 20:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/23/15 20:54	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/23/15 20:54	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/23/15 20:54	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/23/15 20:54	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/23/15 20:54	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/23/15 20:54	1
Styrene	1.0	U	1.0	0.45	ug/L			10/23/15 20:54	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/23/15 20:54	1
Toluene	1.0	U	1.0	0.23	ug/L			10/23/15 20:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/23/15 20:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/23/15 20:54	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/23/15 20:54	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/23/15 20:54	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/23/15 20:54	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/23/15 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*78 - 125*		*10/23/15 20:54*	*1*
4-Bromofluorobenzene (Surr)	*90*		*61 - 120*		*10/23/15 20:54*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/23/15 20:54*	*1*
Dibromofluoromethane (Surr)	*113*		*79 - 120*		*10/23/15 20:54*	*1*

Client Sample ID: GW-101415-TP-029
Date Collected: 10/14/15 10:48
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	200	U	200	88	ug/L			10/23/15 21:17	200
1,1,2,2-Tetrachloroethane	200	U	200	44	ug/L			10/23/15 21:17	200
1,1,2-Trichloroethane	200	U	200	48	ug/L			10/23/15 21:17	200
1,1-Dichloroethane	200	U	200	60	ug/L			10/23/15 21:17	200
1,1-Dichloroethene	200	U	200	90	ug/L			10/23/15 21:17	200

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101415-TP-029
Date Collected: 10/14/15 10:48
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	200	U	200	46	ug/L			10/23/15 21:17	200
1,2-Dichloropropane	200	U	200	50	ug/L			10/23/15 21:17	200
2-Hexanone	2000	U	2000	96	ug/L			10/23/15 21:17	200
Acetone	2000	U	2000	190	ug/L			10/23/15 21:17	200
Benzene	200	U	200	70	ug/L			10/23/15 21:17	200
Bromoform	200	U	200	110	ug/L			10/23/15 21:17	200
Bromomethane	200	U	200	88	ug/L			10/23/15 21:17	200
Carbon disulfide	200	U	200	76	ug/L			10/23/15 21:17	200
Carbon tetrachloride	200	U	200	86	ug/L			10/23/15 21:17	200
Chlorobenzene	200	U	200	50	ug/L			10/23/15 21:17	200
Chloroethane	200	U	200	64	ug/L			10/23/15 21:17	200
Chloroform	200	U	200	50	ug/L			10/23/15 21:17	200
Chloromethane	200	U	200	88	ug/L			10/23/15 21:17	200
cis-1,2-Dichloroethene	**4800**		200	52	ug/L			10/23/15 21:17	200
cis-1,3-Dichloropropene	200	U	200	92	ug/L			10/23/15 21:17	200
Dichlorobromomethane	200	U	200	58	ug/L			10/23/15 21:17	200
Ethylbenzene	200	U	200	50	ug/L			10/23/15 21:17	200
2-Butanone (MEK)	2000	U	2000	110	ug/L			10/23/15 21:17	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	200	ug/L			10/23/15 21:17	200
Methylene Chloride	200	U	200	66	ug/L			10/23/15 21:17	200
Styrene	200	U	200	90	ug/L			10/23/15 21:17	200
Tetrachloroethene	200	U	200	62	ug/L			10/23/15 21:17	200
Toluene	200	U	200	46	ug/L			10/23/15 21:17	200
trans-1,2-Dichloroethene	200	U	200	60	ug/L			10/23/15 21:17	200
trans-1,3-Dichloropropene	200	U	200	110	ug/L			10/23/15 21:17	200
Trichloroethene	**420**		200	44	ug/L			10/23/15 21:17	200
Vinyl chloride	**1500**		200	58	ug/L			10/23/15 21:17	200
Xylenes, Total	400	U	400	100	ug/L			10/23/15 21:17	200
Chlorodibromomethane	200	U	200	86	ug/L			10/23/15 21:17	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*78 - 125*		*10/23/15 21:17*	*200*
4-Bromofluorobenzene (Surr)	*94*		*61 - 120*		*10/23/15 21:17*	*200*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/23/15 21:17*	*200*
Dibromofluoromethane (Surr)	*119*		*79 - 120*		*10/23/15 21:17*	*200*

Client Sample ID: GW-101415-TP-030
Date Collected: 10/14/15 14:12
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	250	U	250	110	ug/L			10/24/15 17:02	250
1,1,2,2-Tetrachloroethane	250	U	250	55	ug/L			10/24/15 17:02	250
1,1,2-Trichloroethane	250	U	250	60	ug/L			10/24/15 17:02	250
1,1-Dichloroethane	**290**		250	75	ug/L			10/24/15 17:02	250
1,1-Dichloroethene	250	U	250	110	ug/L			10/24/15 17:02	250
1,2-Dichloroethane	250	U	250	58	ug/L			10/24/15 17:02	250
1,2-Dichloropropane	250	U	250	63	ug/L			10/24/15 17:02	250
2-Hexanone	2500	U	2500	120	ug/L			10/24/15 17:02	250
Acetone	2500	U	2500	240	ug/L			10/24/15 17:02	250
Benzene	250	U	250	88	ug/L			10/24/15 17:02	250

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101415-TP-030
Date Collected: 10/14/15 14:12
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	250	U	250	140	ug/L			10/24/15 17:02	250
Bromomethane	250	U	250	110	ug/L			10/24/15 17:02	250
Carbon disulfide	250	U	250	95	ug/L			10/24/15 17:02	250
Carbon tetrachloride	250	U	250	110	ug/L			10/24/15 17:02	250
Chlorobenzene	250	U	250	63	ug/L			10/24/15 17:02	250
Chloroethane	250	U	250	80	ug/L			10/24/15 17:02	250
Chloroform	250	U	250	63	ug/L			10/24/15 17:02	250
Chloromethane	250	U	250	110	ug/L			10/24/15 17:02	250
cis-1,2-Dichloroethene	**6600**		250	65	ug/L			10/24/15 17:02	250
cis-1,3-Dichloropropene	250	U	250	120	ug/L			10/24/15 17:02	250
Dichlorobromomethane	250	U	250	73	ug/L			10/24/15 17:02	250
Ethylbenzene	**410**		250	63	ug/L			10/24/15 17:02	250
2-Butanone (MEK)	2500	U	2500	130	ug/L			10/24/15 17:02	250
4-Methyl-2-pentanone (MIBK)	2500	U	2500	250	ug/L			10/24/15 17:02	250
Methylene Chloride	250	U	250	83	ug/L			10/24/15 17:02	250
Styrene	250	U	250	110	ug/L			10/24/15 17:02	250
Tetrachloroethene	250	U	250	78	ug/L			10/24/15 17:02	250
Toluene	**790**		250	58	ug/L			10/24/15 17:02	250
trans-1,2-Dichloroethene	250	U	250	75	ug/L			10/24/15 17:02	250
trans-1,3-Dichloropropene	250	U	250	140	ug/L			10/24/15 17:02	250
Trichloroethene	250	U	250	55	ug/L			10/24/15 17:02	250
Vinyl chloride	**1700**		250	73	ug/L			10/24/15 17:02	250
Xylenes, Total	**650**		500	130	ug/L			10/24/15 17:02	250
Chlorodibromomethane	250	U	250	110	ug/L			10/24/15 17:02	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*78 - 125*		*10/24/15 17:02*	*250*
4-Bromofluorobenzene (Surr)	*94*		*61 - 120*		*10/24/15 17:02*	*250*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/24/15 17:02*	*250*
Dibromofluoromethane (Surr)	*116*		*79 - 120*		*10/24/15 17:02*	*250*

Client Sample ID: GW-101415-TP-031
Date Collected: 10/14/15 15:07
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**360**		140	63	ug/L			10/23/15 15:08	142.86
1,1,2,2-Tetrachloroethane	140	U	140	31	ug/L			10/23/15 15:08	142.86
1,1,2-Trichloroethane	140	U	140	34	ug/L			10/23/15 15:08	142.86
1,1-Dichloroethane	**100**	**J**	140	43	ug/L			10/23/15 15:08	142.86
1,1-Dichloroethene	140	U	140	64	ug/L			10/23/15 15:08	142.86
1,2-Dichloroethane	140	U	140	33	ug/L			10/23/15 15:08	142.86
1,2-Dichloropropane	140	U	140	36	ug/L			10/23/15 15:08	142.86
2-Hexanone	1400	U	1400	69	ug/L			10/23/15 15:08	142.86
Acetone	**190**	**J B**	1400	130	ug/L			10/23/15 15:08	142.86
Benzene	140	U	140	50	ug/L			10/23/15 15:08	142.86
Bromoform	140	U	140	80	ug/L			10/23/15 15:08	142.86
Bromomethane	140	U	140	63	ug/L			10/23/15 15:08	142.86
Carbon disulfide	140	U	140	54	ug/L			10/23/15 15:08	142.86
Carbon tetrachloride	140	U	140	61	ug/L			10/23/15 15:08	142.86
Chlorobenzene	140	U	140	36	ug/L			10/23/15 15:08	142.86

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101415-TP-031
Date Collected: 10/14/15 15:07
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	140	U	140	46	ug/L			10/23/15 15:08	142.86
Chloroform	140	U	140	36	ug/L			10/23/15 15:08	142.86
Chloromethane	140	U	140	63	ug/L			10/23/15 15:08	142.86
cis-1,2-Dichloroethene	**1400**		140	37	ug/L			10/23/15 15:08	142.86
cis-1,3-Dichloropropene	140	U	140	66	ug/L			10/23/15 15:08	142.86
Dichlorobromomethane	140	U	140	41	ug/L			10/23/15 15:08	142.86
Ethylbenzene	140	U	140	36	ug/L			10/23/15 15:08	142.86
2-Butanone (MEK)	1400	U	1400	76	ug/L			10/23/15 15:08	142.86
4-Methyl-2-pentanone (MIBK)	1400	U	1400	140	ug/L			10/23/15 15:08	142.86
Methylene Chloride	**180**	**B**	140	47	ug/L			10/23/15 15:08	142.86
Styrene	140	U	140	64	ug/L			10/23/15 15:08	142.86
Tetrachloroethene	140	U	140	44	ug/L			10/23/15 15:08	142.86
Toluene	140	U	140	33	ug/L			10/23/15 15:08	142.86
trans-1,2-Dichloroethene	140	U	140	43	ug/L			10/23/15 15:08	142.86
trans-1,3-Dichloropropene	140	U	140	80	ug/L			10/23/15 15:08	142.86
Trichloroethene	**5100**	**F1**	140	31	ug/L			10/23/15 15:08	142.86
Vinyl chloride	**62**	**J**	140	41	ug/L			10/23/15 15:08	142.86
Xylenes, Total	290	U	290	74	ug/L			10/23/15 15:08	142.86
Chlorodibromomethane	140	U	140	61	ug/L			10/23/15 15:08	142.86

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*78 - 125*		*10/23/15 15:08*	*142.86*
4-Bromofluorobenzene (Surr)	*72*		*61 - 120*		*10/23/15 15:08*	*142.86*
Toluene-d8 (Surr)	*86*		*80 - 120*		*10/23/15 15:08*	*142.86*
Dibromofluoromethane (Surr)	*96*		*79 - 120*		*10/23/15 15:08*	*142.86*

Client Sample ID: GW-101415-TP-032
Date Collected: 10/14/15 17:07
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**380**		170	73	ug/L			10/23/15 22:42	166.67
1,1,2,2-Tetrachloroethane	170	U	170	37	ug/L			10/23/15 22:42	166.67
1,1,2-Trichloroethane	170	U	170	40	ug/L			10/23/15 22:42	166.67
1,1-Dichloroethane	**110**	**J**	170	50	ug/L			10/23/15 22:42	166.67
1,1-Dichloroethene	170	U	170	75	ug/L			10/23/15 22:42	166.67
1,2-Dichloroethane	170	U	170	38	ug/L			10/23/15 22:42	166.67
1,2-Dichloropropane	170	U	170	42	ug/L			10/23/15 22:42	166.67
2-Hexanone	1700	U	1700	80	ug/L			10/23/15 22:42	166.67
Acetone	1700	U	1700	160	ug/L			10/23/15 22:42	166.67
Benzene	170	U	170	58	ug/L			10/23/15 22:42	166.67
Bromoform	170	U	170	93	ug/L			10/23/15 22:42	166.67
Bromomethane	170	U	170	73	ug/L			10/23/15 22:42	166.67
Carbon disulfide	170	U	170	63	ug/L			10/23/15 22:42	166.67
Carbon tetrachloride	170	U	170	72	ug/L			10/23/15 22:42	166.67
Chlorobenzene	170	U	170	42	ug/L			10/23/15 22:42	166.67
Chloroethane	170	U	170	53	ug/L			10/23/15 22:42	166.67
Chloroform	170	U	170	42	ug/L			10/23/15 22:42	166.67
Chloromethane	170	U	170	73	ug/L			10/23/15 22:42	166.67
cis-1,2-Dichloroethene	**4400**		170	43	ug/L			10/23/15 22:42	166.67
cis-1,3-Dichloropropene	170	U	170	77	ug/L			10/23/15 22:42	166.67

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101415-TP-032
Date Collected: 10/14/15 17:07
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	170	U	170	48	ug/L			10/23/15 22:42	166.67
Ethylbenzene	170	U	170	42	ug/L			10/23/15 22:42	166.67
2-Butanone (MEK)	1700	U	1700	88	ug/L			10/23/15 22:42	166.67
4-Methyl-2-pentanone (MIBK)	1700	U	1700	170	ug/L			10/23/15 22:42	166.67
Methylene Chloride	**230**	**B**	170	55	ug/L			10/23/15 22:42	166.67
Styrene	170	U	170	75	ug/L			10/23/15 22:42	166.67
Tetrachloroethene	170	U	170	52	ug/L			10/23/15 22:42	166.67
Toluene	170	U	170	38	ug/L			10/23/15 22:42	166.67
trans-1,2-Dichloroethene	170	U	170	50	ug/L			10/23/15 22:42	166.67
trans-1,3-Dichloropropene	170	U	170	93	ug/L			10/23/15 22:42	166.67
Trichloroethene	**3000**		170	37	ug/L			10/23/15 22:42	166.67
Vinyl chloride	**94**	**J**	170	48	ug/L			10/23/15 22:42	166.67
Xylenes, Total	330	U	330	87	ug/L			10/23/15 22:42	166.67
Chlorodibromomethane	170	U	170	72	ug/L			10/23/15 22:42	166.67

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*78 - 125*		*10/23/15 22:42*	*166.67*
4-Bromofluorobenzene (Surr)	*74*		*61 - 120*		*10/23/15 22:42*	*166.67*
Toluene-d8 (Surr)	*85*		*80 - 120*		*10/23/15 22:42*	*166.67*
Dibromofluoromethane (Surr)	*99*		*79 - 120*		*10/23/15 22:42*	*166.67*

Client Sample ID: TB-101415-TP-003
Date Collected: 10/14/15 17:30
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/23/15 18:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/23/15 18:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/23/15 18:20	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/23/15 18:20	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/23/15 18:20	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/23/15 18:20	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/23/15 18:20	1
2-Hexanone	10	U	10	0.48	ug/L			10/23/15 18:20	1
Acetone	10	U	10	0.94	ug/L			10/23/15 18:20	1
Benzene	1.0	U	1.0	0.35	ug/L			10/23/15 18:20	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/23/15 18:20	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/23/15 18:20	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/23/15 18:20	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/23/15 18:20	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/23/15 18:20	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/23/15 18:20	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/23/15 18:20	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/23/15 18:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/23/15 18:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/23/15 18:20	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/23/15 18:20	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/23/15 18:20	1
2-Butanone (MEK)	**0.60**	**J**	10	0.53	ug/L			10/23/15 18:20	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/23/15 18:20	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/23/15 18:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-101415-TP-003
Date Collected: 10/14/15 17:30
Date Received: 10/15/15 09:30

Lab Sample ID: 240-56645-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.45	ug/L			10/23/15 18:20	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/23/15 18:20	1
Toluene	1.0	U	1.0	0.23	ug/L			10/23/15 18:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/23/15 18:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/23/15 18:20	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/23/15 18:20	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/23/15 18:20	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/23/15 18:20	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/23/15 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*78 - 125*		*10/23/15 18:20*	*1*
4-Bromofluorobenzene (Surr)	*88*		*61 - 120*		*10/23/15 18:20*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/23/15 18:20*	*1*
Dibromofluoromethane (Surr)	*99*		*79 - 120*		*10/23/15 18:20*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-125)	(61-120)	(80-120)	(79-120)
240-56645-1	GW-101415-TP-028	106	90	93	113
240-56645-2	GW-101415-TP-029	113	94	98	119
240-56645-3	GW-101415-TP-030	110	94	97	116
240-56645-4	GW-101415-TP-031	106	72	86	96
240-56645-4 MS	GW-101415-TP-031	92	94	94	90
240-56645-4 MSD	GW-101415-TP-031	93	91	92	94
240-56645-5	GW-101415-TP-032	105	74	85	99
240-56645-6	TB-101415-TP-003	109	88	95	99
LCS 240-203311/4	Lab Control Sample	98	102	99	108
LCS 240-203314/4	Lab Control Sample	102	100	101	105
LCS 240-203365/4	Lab Control Sample	97	94	94	95
LCS 240-203491/4	Lab Control Sample	104	101	101	112
MB 240-203311/6	Method Blank	102	87	92	110
MB 240-203314/6	Method Blank	112	103	91	104
MB 240-203365/6	Method Blank	105	75	86	96
MB 240-203491/6	Method Blank	99	82	89	105

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-203311/6
Matrix: Water
Analysis Batch: 203311

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/23/15 13:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/23/15 13:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/23/15 13:22	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/23/15 13:22	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/23/15 13:22	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/23/15 13:22	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/23/15 13:22	1
2-Hexanone	10	U	10	0.48	ug/L			10/23/15 13:22	1
Acetone	10	U	10	0.94	ug/L			10/23/15 13:22	1
Benzene	1.0	U	1.0	0.35	ug/L			10/23/15 13:22	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/23/15 13:22	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/23/15 13:22	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/23/15 13:22	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/23/15 13:22	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/23/15 13:22	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/23/15 13:22	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/23/15 13:22	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/23/15 13:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/23/15 13:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/23/15 13:22	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/23/15 13:22	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/23/15 13:22	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/23/15 13:22	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/23/15 13:22	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/23/15 13:22	1
Styrene	1.0	U	1.0	0.45	ug/L			10/23/15 13:22	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/23/15 13:22	1
Toluene	1.0	U	1.0	0.23	ug/L			10/23/15 13:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/23/15 13:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/23/15 13:22	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/23/15 13:22	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/23/15 13:22	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/23/15 13:22	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/23/15 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*78 - 125*		*10/23/15 13:22*	*1*
4-Bromofluorobenzene (Surr)	*87*		*61 - 120*		*10/23/15 13:22*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*10/23/15 13:22*	*1*
Dibromofluoromethane (Surr)	*110*		*79 - 120*		*10/23/15 13:22*	*1*

Lab Sample ID: LCS 240-203311/4
Matrix: Water
Analysis Batch: 203311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	9.52		ug/L		95	77 - 123
1,1,2,2-Tetrachloroethane	10.0	9.85		ug/L		99	71 - 123

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-203311/4
Matrix: Water
Analysis Batch: 203311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	10.0	9.12		ug/L		91	80 - 120
1,1-Dichloroethane	10.0	10.2		ug/L		102	79 - 125
1,1-Dichloroethene	10.0	9.05		ug/L		91	76 - 124
1,2-Dichloroethane	10.0	9.23		ug/L		92	80 - 120
1,2-Dichloropropane	10.0	9.95		ug/L		100	78 - 124
2-Hexanone	20.0	15.8		ug/L		79	55 - 141
Acetone	20.0	17.1		ug/L		86	34 - 148
Benzene	10.0	9.42		ug/L		94	80 - 120
Bromoform	10.0	11.2		ug/L		112	56 - 122
Bromomethane	10.0	5.88		ug/L		59	38 - 132
Carbon disulfide	10.0	9.42		ug/L		94	65 - 144
Carbon tetrachloride	10.0	12.4		ug/L		124	77 - 131
Chlorobenzene	10.0	9.93		ug/L		99	80 - 120
Chloroethane	10.0	6.81		ug/L		68	36 - 126
Chloroform	10.0	9.45		ug/L		95	80 - 120
Chloromethane	10.0	7.17		ug/L		72	48 - 133
cis-1,2-Dichloroethene	10.0	9.71		ug/L		97	79 - 120
cis-1,3-Dichloropropene	10.0	10.0		ug/L		100	74 - 126
Dichlorobromomethane	10.0	10.1		ug/L		101	80 - 120
Ethylbenzene	10.0	9.78		ug/L		98	80 - 120
m-Xylene & p-Xylene	10.0	9.73		ug/L		97	80 - 120
2-Butanone (MEK)	20.0	17.8		ug/L		89	56 - 138
4-Methyl-2-pentanone (MIBK)	20.0	18.5		ug/L		92	64 - 135
Methylene Chloride	10.0	10.5		ug/L		105	77 - 129
o-Xylene	10.0	9.80		ug/L		98	80 - 120
Styrene	10.0	9.40		ug/L		94	76 - 122
Tetrachloroethene	10.0	9.92		ug/L		99	78 - 121
Toluene	10.0	9.00		ug/L		90	80 - 120
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	80 - 124
trans-1,3-Dichloropropene	10.0	9.77		ug/L		98	75 - 131
Trichloroethene	10.0	10.2		ug/L		102	80 - 121
Vinyl chloride	10.0	7.42		ug/L		74	52 - 121
Xylenes, Total	20.0	19.5		ug/L		98	80 - 120
Chlorodibromomethane	10.0	10.7		ug/L		107	74 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*78 - 125*
4-Bromofluorobenzene (Surr)	*102*		*61 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*79 - 120*

Lab Sample ID: MB 240-203314/6
Matrix: Water
Analysis Batch: 203314

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/23/15 12:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/23/15 12:00	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-203314/6
Matrix: Water
Analysis Batch: 203314

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/23/15 12:00	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/23/15 12:00	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/23/15 12:00	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/23/15 12:00	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/23/15 12:00	1
2-Hexanone	10	U	10	0.48	ug/L			10/23/15 12:00	1
Acetone	1.14	J	10	0.94	ug/L			10/23/15 12:00	1
Benzene	1.0	U	1.0	0.35	ug/L			10/23/15 12:00	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/23/15 12:00	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/23/15 12:00	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/23/15 12:00	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/23/15 12:00	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/23/15 12:00	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/23/15 12:00	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/23/15 12:00	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/23/15 12:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/23/15 12:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/23/15 12:00	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/23/15 12:00	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/23/15 12:00	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/23/15 12:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/23/15 12:00	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/23/15 12:00	1
Styrene	1.0	U	1.0	0.45	ug/L			10/23/15 12:00	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/23/15 12:00	1
Toluene	1.0	U	1.0	0.23	ug/L			10/23/15 12:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/23/15 12:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/23/15 12:00	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/23/15 12:00	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/23/15 12:00	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/23/15 12:00	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/23/15 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*78 - 125*		*10/23/15 12:00*	*1*
4-Bromofluorobenzene (Surr)	*103*		*61 - 120*		*10/23/15 12:00*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/23/15 12:00*	*1*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*10/23/15 12:00*	*1*

Lab Sample ID: LCS 240-203314/4
Matrix: Water
Analysis Batch: 203314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.3		ug/L		103	77 - 123
1,1,2,2-Tetrachloroethane	10.0	10.5		ug/L		105	71 - 123
1,1,2-Trichloroethane	10.0	10.3		ug/L		103	80 - 120
1,1-Dichloroethane	10.0	10.8		ug/L		108	79 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-203314/4
Matrix: Water
Analysis Batch: 203314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	10.3		ug/L		103	76 - 124
1,2-Dichloroethane	10.0	10.6		ug/L		106	80 - 120
1,2-Dichloropropane	10.0	10.8		ug/L		108	78 - 124
2-Hexanone	20.0	19.1		ug/L		96	55 - 141
Acetone	20.0	21.2		ug/L		106	34 - 148
Benzene	10.0	10.6		ug/L		106	80 - 120
Bromoform	10.0	9.66		ug/L		97	56 - 122
Bromomethane	10.0	9.25		ug/L		93	38 - 132
Carbon disulfide	10.0	10.2		ug/L		102	65 - 144
Carbon tetrachloride	10.0	10.4		ug/L		104	77 - 131
Chlorobenzene	10.0	9.60		ug/L		96	80 - 120
Chloroethane	10.0	12.5		ug/L		125	36 - 126
Chloroform	10.0	10.7		ug/L		107	80 - 120
Chloromethane	10.0	8.54		ug/L		85	48 - 133
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	79 - 120
cis-1,3-Dichloropropene	10.0	9.76		ug/L		98	74 - 126
Dichlorobromomethane	10.0	10.4		ug/L		104	80 - 120
Ethylbenzene	10.0	9.85		ug/L		98	80 - 120
m-Xylene & p-Xylene	10.0	10.0		ug/L		100	80 - 120
2-Butanone (MEK)	20.0	22.0		ug/L		110	56 - 138
4-Methyl-2-pentanone (MIBK)	20.0	21.1		ug/L		106	64 - 135
Methylene Chloride	10.0	10.4		ug/L		104	77 - 129
o-Xylene	10.0	9.64		ug/L		96	80 - 120
Styrene	10.0	9.58		ug/L		96	76 - 122
Tetrachloroethene	10.0	9.78		ug/L		98	78 - 121
Toluene	10.0	10.3		ug/L		103	80 - 120
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	80 - 124
trans-1,3-Dichloropropene	10.0	10.6		ug/L		106	75 - 131
Trichloroethene	10.0	10.1		ug/L		101	80 - 121
Vinyl chloride	10.0	9.28		ug/L		93	52 - 121
Xylenes, Total	20.0	19.6		ug/L		98	80 - 120
Chlorodibromomethane	10.0	8.62		ug/L		86	74 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*78 - 125*
4-Bromofluorobenzene (Surr)	*100*		*61 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*79 - 120*

Lab Sample ID: MB 240-203365/6
Matrix: Water
Analysis Batch: 203365

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/23/15 14:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/23/15 14:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/23/15 14:46	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/23/15 14:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-203365/6
Matrix: Water
Analysis Batch: 203365

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/23/15 14:46	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/23/15 14:46	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/23/15 14:46	1
2-Hexanone	10	U	10	0.48	ug/L			10/23/15 14:46	1
Acetone	1.02	J	10	0.94	ug/L			10/23/15 14:46	1
Benzene	1.0	U	1.0	0.35	ug/L			10/23/15 14:46	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/23/15 14:46	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/23/15 14:46	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/23/15 14:46	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/23/15 14:46	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/23/15 14:46	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/23/15 14:46	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/23/15 14:46	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/23/15 14:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/23/15 14:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/23/15 14:46	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/23/15 14:46	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/23/15 14:46	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/23/15 14:46	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/23/15 14:46	1
Methylene Chloride	1.02		1.0	0.33	ug/L			10/23/15 14:46	1
Styrene	1.0	U	1.0	0.45	ug/L			10/23/15 14:46	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/23/15 14:46	1
Toluene	1.0	U	1.0	0.23	ug/L			10/23/15 14:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/23/15 14:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/23/15 14:46	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/23/15 14:46	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/23/15 14:46	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/23/15 14:46	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/23/15 14:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*78 - 125*		*10/23/15 14:46*	*1*
4-Bromofluorobenzene (Surr)	*75*		*61 - 120*		*10/23/15 14:46*	*1*
Toluene-d8 (Surr)	*86*		*80 - 120*		*10/23/15 14:46*	*1*
Dibromofluoromethane (Surr)	*96*		*79 - 120*		*10/23/15 14:46*	*1*

Lab Sample ID: LCS 240-203365/4
Matrix: Water
Analysis Batch: 203365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	9.28		ug/L		93	77 - 123
1,1,2,2-Tetrachloroethane	10.0	8.67		ug/L		87	71 - 123
1,1,2-Trichloroethane	10.0	10.0		ug/L		100	80 - 120
1,1-Dichloroethane	10.0	9.52		ug/L		95	79 - 125
1,1-Dichloroethene	10.0	10.5		ug/L		105	76 - 124
1,2-Dichloroethane	10.0	11.0		ug/L		110	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-203365/4
Matrix: Water
Analysis Batch: 203365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	10.0	9.37		ug/L		94	78 - 124
2-Hexanone	20.0	16.6		ug/L		83	55 - 141
Acetone	20.0	19.1		ug/L		95	34 - 148
Benzene	10.0	9.82		ug/L		98	80 - 120
Bromoform	10.0	8.21		ug/L		82	56 - 122
Bromomethane	10.0	11.1		ug/L		111	38 - 132
Carbon disulfide	10.0	8.86		ug/L		89	65 - 144
Carbon tetrachloride	10.0	9.92		ug/L		99	77 - 131
Chlorobenzene	10.0	10.2		ug/L		102	80 - 120
Chloroethane	10.0	9.11		ug/L		91	36 - 126
Chloroform	10.0	10.5		ug/L		105	80 - 120
Chloromethane	10.0	8.27		ug/L		83	48 - 133
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	79 - 120
cis-1,3-Dichloropropene	10.0	8.90		ug/L		89	74 - 126
Dichlorobromomethane	10.0	9.21		ug/L		92	80 - 120
Ethylbenzene	10.0	10.3		ug/L		103	80 - 120
m-Xylene & p-Xylene	10.0	10.5		ug/L		105	80 - 120
2-Butanone (MEK)	20.0	18.6		ug/L		93	56 - 138
4-Methyl-2-pentanone (MIBK)	20.0	16.3		ug/L		82	64 - 135
Methylene Chloride	10.0	12.3		ug/L		123	77 - 129
o-Xylene	10.0	10.3		ug/L		103	80 - 120
Styrene	10.0	9.92		ug/L		99	76 - 122
Tetrachloroethene	10.0	10.4		ug/L		104	78 - 121
Toluene	10.0	10.1		ug/L		101	80 - 120
trans-1,2-Dichloroethene	10.0	11.1		ug/L		111	80 - 124
trans-1,3-Dichloropropene	10.0	9.17		ug/L		92	75 - 131
Trichloroethene	10.0	10.6		ug/L		106	80 - 121
Vinyl chloride	10.0	8.46		ug/L		85	52 - 121
Xylenes, Total	20.0	20.8		ug/L		104	80 - 120
Chlorodibromomethane	10.0	9.29		ug/L		93	74 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*78 - 125*
4-Bromofluorobenzene (Surr)	*94*		*61 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*79 - 120*

Lab Sample ID: 240-56645-4 MS
Matrix: Water
Analysis Batch: 203365

Client Sample ID: GW-101415-TP-031
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	360		1430	1520		ug/L		81	69 - 122
1,1,2,2-Tetrachloroethane	140	U	1430	1160		ug/L		81	61 - 130
1,1,2-Trichloroethane	140	U	1430	1420		ug/L		99	72 - 125
1,1-Dichloroethane	100	J	1430	1400		ug/L		91	73 - 124
1,1-Dichloroethene	140	U	1430	1570		ug/L		110	67 - 124
1,2-Dichloroethane	140	U	1430	1460		ug/L		102	74 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-56645-4 MS
Matrix: Water
Analysis Batch: 203365

Client Sample ID: GW-101415-TP-031
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	140	U	1430	1260		ug/L		88	73 - 122
2-Hexanone	1400	U	2860	2400		ug/L		84	49 - 142
Acetone	190	J B	2860	2780		ug/L		91	32 - 126
Benzene	140	U	1430	1330		ug/L		93	73 - 121
Bromoform	140	U	1430	1210		ug/L		85	45 - 121
Bromomethane	140	U	1430	1420		ug/L		99	26 - 136
Carbon disulfide	140	U	1430	1170		ug/L		82	54 - 144
Carbon tetrachloride	140	U	1430	1250		ug/L		87	65 - 129
Chlorobenzene	140	U	1430	1390		ug/L		98	72 - 120
Chloroethane	140	U	1430	1240		ug/L		87	27 - 131
Chloroform	140	U	1430	1370		ug/L		96	73 - 121
Chloromethane	140	U	1430	1120		ug/L		78	39 - 134
cis-1,2-Dichloroethene	1400		1430	2630		ug/L		83	66 - 124
cis-1,3-Dichloropropene	140	U	1430	1160		ug/L		81	60 - 120
Dichlorobromomethane	140	U	1430	1270		ug/L		89	72 - 120
Ethylbenzene	140	U	1430	1370		ug/L		96	68 - 121
m-Xylene & p-Xylene	290	U	1430	1420		ug/L		99	66 - 123
2-Butanone (MEK)	1400	U	2860	2590		ug/L		91	49 - 132
4-Methyl-2-pentanone (MIBK)	1400	U	2860	2250		ug/L		79	58 - 136
Methylene Chloride	180	B	1430	1700		ug/L		106	70 - 124
o-Xylene	140	U	1430	1430		ug/L		100	68 - 121
Styrene	140	U	1430	1400		ug/L		98	64 - 126
Tetrachloroethene	140	U	1430	1510		ug/L		105	59 - 125
Toluene	140	U	1430	1410		ug/L		99	72 - 122
trans-1,2-Dichloroethene	140	U	1430	1400		ug/L		98	72 - 125
trans-1,3-Dichloropropene	140	U	1430	1220		ug/L		85	58 - 132
Trichloroethene	5100	F1	1430	5840	E F1	ug/L		49	61 - 129
Vinyl chloride	62	J	1430	1180		ug/L		78	44 - 122
Xylenes, Total	290	U	2860	2850		ug/L		100	67 - 122
Chlorodibromomethane	140	U	1430	1290		ug/L		90	62 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*78 - 125*
4-Bromofluorobenzene (Surr)	*94*		*61 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*90*		*79 - 120*

Lab Sample ID: 240-56645-4 MSD
Matrix: Water
Analysis Batch: 203365

Client Sample ID: GW-101415-TP-031
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	360		1430	1600		ug/L		87	69 - 122	6	14
1,1,2,2-Tetrachloroethane	140	U	1430	1190		ug/L		83	61 - 130	3	18
1,1,2-Trichloroethane	140	U	1430	1390		ug/L		97	72 - 125	2	19
1,1-Dichloroethane	100	J	1430	1450		ug/L		95	73 - 124	4	14
1,1-Dichloroethene	140	U	1430	1410		ug/L		99	67 - 124	11	24
1,2-Dichloroethane	140	U	1430	1480		ug/L		104	74 - 125	2	24

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-56645-4 MSD
Matrix: Water
Analysis Batch: 203365

Client Sample ID: GW-101415-TP-031
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	140	U	1430	1300		ug/L		91	73 - 122	3	15
2-Hexanone	1400	U	2860	2400		ug/L		84	49 - 142	0	27
Acetone	190	J B	2860	2470		ug/L		80	32 - 126	12	28
Benzene	140	U	1430	1320		ug/L		92	73 - 121	1	13
Bromoform	140	U	1430	1170		ug/L		82	45 - 121	3	19
Bromomethane	140	U	1430	1470		ug/L		103	26 - 136	4	35
Carbon disulfide	140	U	1430	1270		ug/L		89	54 - 144	8	34
Carbon tetrachloride	140	U	1430	1370		ug/L		96	65 - 129	9	20
Chlorobenzene	140	U	1430	1380		ug/L		96	72 - 120	1	15
Chloroethane	140	U	1430	1240		ug/L		87	27 - 131	0	35
Chloroform	140	U	1430	1470		ug/L		103	73 - 121	7	17
Chloromethane	140	U	1430	1120		ug/L		79	39 - 134	1	20
cis-1,2-Dichloroethene	1400		1430	2890		ug/L		101	66 - 124	10	22
cis-1,3-Dichloropropene	140	U	1430	1210		ug/L		85	60 - 120	4	21
Dichlorobromomethane	140	U	1430	1300		ug/L		91	72 - 120	2	19
Ethylbenzene	140	U	1430	1380		ug/L		97	68 - 121	1	16
m-Xylene & p-Xylene	290	U	1430	1440		ug/L		101	66 - 123	2	15
2-Butanone (MEK)	1400	U	2860	2690		ug/L		94	49 - 132	4	19
4-Methyl-2-pentanone (MIBK)	1400	U	2860	2400		ug/L		84	58 - 136	6	32
Methylene Chloride	180	B	1430	1710		ug/L		107	70 - 124	1	14
o-Xylene	140	U	1430	1400		ug/L		98	68 - 121	2	14
Styrene	140	U	1430	1350		ug/L		95	64 - 126	3	15
Tetrachloroethene	140	U	1430	1440		ug/L		101	59 - 125	4	20
Toluene	140	U	1430	1390		ug/L		97	72 - 122	2	15
trans-1,2-Dichloroethene	140	U	1430	1460		ug/L		102	72 - 125	4	25
trans-1,3-Dichloropropene	140	U	1430	1260		ug/L		88	58 - 132	3	22
Trichloroethene	5100	F1	1430	6040	E	ug/L		63	61 - 129	3	14
Vinyl chloride	62	J	1430	1200		ug/L		79	44 - 122	2	35
Xylenes, Total	290	U	2860	2840		ug/L		99	67 - 122	0	14
Chlorodibromomethane	140	U	1430	1320		ug/L		93	62 - 122	2	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*78 - 125*
4-Bromofluorobenzene (Surr)	*91*		*61 - 120*
Toluene-d8 (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*79 - 120*

Lab Sample ID: MB 240-203491/6
Matrix: Water
Analysis Batch: 203491

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/24/15 12:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/24/15 12:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/24/15 12:31	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/24/15 12:31	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/24/15 12:31	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/24/15 12:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-203491/6
Matrix: Water
Analysis Batch: 203491

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/24/15 12:31	1
2-Hexanone	10	U	10	0.48	ug/L			10/24/15 12:31	1
Acetone	10	U	10	0.94	ug/L			10/24/15 12:31	1
Benzene	1.0	U	1.0	0.35	ug/L			10/24/15 12:31	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/24/15 12:31	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/24/15 12:31	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/24/15 12:31	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/24/15 12:31	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/24/15 12:31	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/24/15 12:31	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/24/15 12:31	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/24/15 12:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/24/15 12:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/24/15 12:31	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/24/15 12:31	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/24/15 12:31	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/24/15 12:31	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/24/15 12:31	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/24/15 12:31	1
Styrene	1.0	U	1.0	0.45	ug/L			10/24/15 12:31	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/24/15 12:31	1
Toluene	1.0	U	1.0	0.23	ug/L			10/24/15 12:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/24/15 12:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/24/15 12:31	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/24/15 12:31	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/24/15 12:31	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/24/15 12:31	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/24/15 12:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*78 - 125*		*10/24/15 12:31*	*1*
4-Bromofluorobenzene (Surr)	*82*		*61 - 120*		*10/24/15 12:31*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*10/24/15 12:31*	*1*
Dibromofluoromethane (Surr)	*105*		*79 - 120*		*10/24/15 12:31*	*1*

Lab Sample ID: LCS 240-203491/4
Matrix: Water
Analysis Batch: 203491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	9.28		ug/L		93	77 - 123
1,1,2,2-Tetrachloroethane	10.0	11.5		ug/L		115	71 - 123
1,1,2-Trichloroethane	10.0	9.61		ug/L		96	80 - 120
1,1-Dichloroethane	10.0	10.5		ug/L		105	79 - 125
1,1-Dichloroethene	10.0	8.12		ug/L		81	76 - 124
1,2-Dichloroethane	10.0	10.0		ug/L		100	80 - 120
1,2-Dichloropropane	10.0	10.6		ug/L		106	78 - 124
2-Hexanone	20.0	18.1		ug/L		90	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-203491/4
Matrix: Water
Analysis Batch: 203491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	17.3		ug/L		87	34 - 148
Benzene	10.0	10.0		ug/L		100	80 - 120
Bromoform	10.0	10.9		ug/L		109	56 - 122
Bromomethane	10.0	6.24		ug/L		62	38 - 132
Carbon disulfide	10.0	8.65		ug/L		87	65 - 144
Carbon tetrachloride	10.0	10.9		ug/L		109	77 - 131
Chlorobenzene	10.0	10.2		ug/L		102	80 - 120
Chloroethane	10.0	6.62		ug/L		66	36 - 126
Chloroform	10.0	9.59		ug/L		96	80 - 120
Chloromethane	10.0	7.01		ug/L		70	48 - 133
cis-1,2-Dichloroethene	10.0	9.82		ug/L		98	79 - 120
cis-1,3-Dichloropropene	10.0	10.6		ug/L		106	74 - 126
Dichlorobromomethane	10.0	10.6		ug/L		106	80 - 120
Ethylbenzene	10.0	10.0		ug/L		100	80 - 120
m-Xylene & p-Xylene	10.0	10.0		ug/L		100	80 - 120
2-Butanone (MEK)	20.0	20.0		ug/L		100	56 - 138
4-Methyl-2-pentanone (MIBK)	20.0	20.9		ug/L		104	64 - 135
Methylene Chloride	10.0	9.61		ug/L		96	77 - 129
o-Xylene	10.0	10.3		ug/L		103	80 - 120
Styrene	10.0	9.60		ug/L		96	76 - 122
Tetrachloroethene	10.0	9.24		ug/L		92	78 - 121
Toluene	10.0	9.15		ug/L		92	80 - 120
trans-1,2-Dichloroethene	10.0	9.93		ug/L		99	80 - 124
trans-1,3-Dichloropropene	10.0	9.98		ug/L		100	75 - 131
Trichloroethene	10.0	10.0		ug/L		100	80 - 121
Vinyl chloride	10.0	6.59		ug/L		66	52 - 121
Xylenes, Total	20.0	20.3		ug/L		102	80 - 120
Chlorodibromomethane	10.0	10.8		ug/L		108	74 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*78 - 125*
4-Bromofluorobenzene (Surr)	*101*		*61 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*79 - 120*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-2

GC/MS VOA

Analysis Batch: 203311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-1	GW-101415-TP-028	Total/NA	Water	8260B	
240-56645-2	GW-101415-TP-029	Total/NA	Water	8260B	
LCS 240-203311/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-203311/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 203314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-6	TB-101415-TP-003	Total/NA	Water	8260B	
LCS 240-203314/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-203314/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 203365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-4	GW-101415-TP-031	Total/NA	Water	8260B	
240-56645-4 MS	GW-101415-TP-031	Total/NA	Water	8260B	
240-56645-4 MSD	GW-101415-TP-031	Total/NA	Water	8260B	
240-56645-5	GW-101415-TP-032	Total/NA	Water	8260B	
LCS 240-203365/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-203365/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 203491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56645-3	GW-101415-TP-030	Total/NA	Water	8260B	
LCS 240-203491/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-203491/6	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-2

Client Sample ID: GW-101415-TP-028
Lab Sample ID: 240-56645-1
Date Collected: 10/14/15 09:52
Matrix: Water
Date Received: 10/15/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	203311	10/23/15 20:54	LEE	TAL CAN

Client Sample ID: GW-101415-TP-029
Lab Sample ID: 240-56645-2
Date Collected: 10/14/15 10:48
Matrix: Water
Date Received: 10/15/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	203311	10/23/15 21:17	LEE	TAL CAN

Client Sample ID: GW-101415-TP-030
Lab Sample ID: 240-56645-3
Date Collected: 10/14/15 14:12
Matrix: Water
Date Received: 10/15/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		250	203491	10/24/15 17:02	LEE	TAL CAN

Client Sample ID: GW-101415-TP-031
Lab Sample ID: 240-56645-4
Date Collected: 10/14/15 15:07
Matrix: Water
Date Received: 10/15/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		142.86	203365	10/23/15 15:08	LRW	TAL CAN

Client Sample ID: GW-101415-TP-032
Lab Sample ID: 240-56645-5
Date Collected: 10/14/15 17:07
Matrix: Water
Date Received: 10/15/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		166.67	203365	10/23/15 22:42	LRW	TAL CAN

Client Sample ID: TB-101415-TP-003
Lab Sample ID: 240-56645-6
Date Collected: 10/14/15 17:30
Matrix: Water
Date Received: 10/15/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	203314	10/23/15 18:20	LEE	TAL CAN

Laboratory References:
TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56645-2

Laboratory: TestAmerica Canton

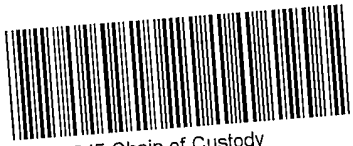
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	10-30-15 *
New York	NELAP	2	10975	03-31-16
Ohio VAP	State Program	5	CL0024	10-31-15 *
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

1,8/C013

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 03577
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302/T07/CRA15	**Laboratory Name:** Test America	**Lab Location:** North Canton, OH	**SSOW ID:** 17302-T07
Project Name: Racer MLK	**Lab Contact:** Denise Heckler	**Lab Quote No:** Lab PS#: 2400 7143	**Cooler No:** 1 of 2
Project Location: Anderson, IN			**Carrier:** FedEx
Chemistry Contact: Deb Andrasko			**Airbill No:** 6443 7561 2804
Sampler(s): Tim Prange			**Date Shipped:** 10/14/15

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	SAMPLE TYPE: Matrix Code (see back of COC)	SAMPLE TYPE: Grab (G) or Comp (C)	CONTAINER QUANTITY & PRESERVATION: Unpreserved	HCl	HNO_3	H_2SO_4	NaOH	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	ANALYSIS REQUESTED: VOCs	Oil & Gas	TOC	DOC	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
1	GW-101415-TP-028	10/14/15	9:52	GW	G		6		4					10	X	X	X	X		
2	-029		10:48				6		4					10	X	X	X	X		
3	-030		14:12				6		4					10	X	X	X	X		
4	-031		15:07				6		4					10	X	X	X	X		
5	GW-101415-TP-032	10/14/15	17:07	GW			6		4					10	X	X	X	X		
6	TB-101415-TP-003	10/14/15	17:30	GW	G		1							1	X					
7																				
8																				
9																				
10																				* Field Filtered
11																				
12																				
13																				
14																				
15																				

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 51
All Samples in Cooler must be on COC

Notes/ Special Requirements:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
1.	GHD	10/14/15	1800	1. Alex Colon	TA	10/15/15	930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

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10/28/2015

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CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 03940
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302/T07/CRA15	**Laboratory Name:** Test America	**Lab Location:** North Canton, OH	**SSOW ID:** 17302-T07
Project Name: Racer MLK	**Lab Contact:** Denise Heckler	**Lab Quote No:** Lab PO#: 24007143	**Cooler No:** on separate 2 of 2 FedEx label
Project Location: Anderson, IN			**Carrier:** FedEx
Chemistry Contact: Deb Andrasko			**Airbill No:** 6443 7561 2790
Sampler(s): Tim Prunger			**Date Shipped:** 10/14/15

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Sulfide	Alk (Carb+Bicarb)	Hardness	Chloride, Sulfate	Nitrate, Nitrite	Dissolved Manganese					MS/MSD Request	Comments/ Special Instructions:
1	GW-101415-TP-028	10/14/15	9:52	WG	G	2		2					1	5	X	X	X	X	X	X						
2	-029		10:48			2		2					1	5	X	X	X	X	X	X						
3	-030		14:12			2		2					1	5	X	X	X	X	X	X						
4	-031		15:07			2		2					1	5	X	X	X	X	X	X						
5	GW-101415-TP-032	10/14/15	17:07	WG	G	2		2					1	5	X	X	X	X	X	X						
6																										
7																										* Field Filtered
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 25

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	GHD	10/14/15	1800	1.	TA	10/15/15	0950
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

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10/20/2015

14 13 12 11 10 9 8 7 6 5 4 3 2 1

TestAmerica Canton Sample Receipt Form/Narrative Login # : 50054
Canton Facility

Client CRA Site Name

Cooler unpacked by: Alex Cedeno

Cooler Received on 10/13/15 Opened on 10/13/15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A (CF +1.0 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

☐ See Multiple Cooler Form

IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. 1.7 °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC554612
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # Yes No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

TestAmerica Multiple Cooler Receipt Form/Narrative **Login # :** 50645

Canton Facility

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Client	8	1.8	0.3	DCE
2	2	3.2	1.7	2

X:\X-Drive Document Control\SOPs\Work Instructions\Word Version Work Instructions\WI-NC-099H-071615 Cooler Receipt Form_page 2 - Multiple Coolers.doc rls

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101415-TP-028	240-56645-L-1	Plastic 250ml - with Nitric Acid	<2		
GW-101415-TP-028	240-56645-N-1	Plastic 500ml - with Nitric Acid	<2		
GW-101415-TP-028	240-56645-O-1	Plastic 500ml - with Zn Acetate and	>9		
GW-101415-TP-029	240-56645-L-2	Plastic 250ml - with Nitric Acid	<2		
GW-101415-TP-029	240-56645-N-2	Plastic 500ml - with Nitric Acid	<2		
GW-101415-TP-029	240-56645-O-2	Plastic 500ml - with Zn Acetate and	>9		
GW-101415-TP-030	240-56645-L-3	Plastic 250ml - with Nitric Acid	<2		
GW-101415-TP-030	240-56645-N-3	Plastic 500ml - with Nitric Acid	<2		
GW-101415-TP-030	240-56645-O-3	Plastic 500ml - with Zn Acetate and	>9		
GW-101415-TP-031	240-56645-L-4	Plastic 250ml - with Nitric Acid	<2		
GW-101415-TP-031	240-56645-N-4	Plastic 500ml - with Nitric Acid	<2		
GW-101415-TP-031	240-56645-O-4	Plastic 500ml - with Zn Acetate and	>9		
GW-101415-TP-032	240-56645-L-5	Plastic 250ml - with Nitric Acid	<2		
GW-101415-TP-032	240-56645-N-5	Plastic 500ml - with Nitric Acid	<2		
GW-101415-TP-032	240-56645-O-5	Plastic 500ml - with Zn Acetate and	>9		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-56689-1
Client Project/Site: 17302-T07, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
10/26/2015 12:38:21 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-56689-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 17302-T07, RACER Delphi Anderson

Report Number: 240-56689-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT
The samples were received on 10/16/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.1 C.

DISSOLVED GASES
Sample GW-101515-TP-033 (240-56689-1) was analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 10/24/2015.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)
Sample GW-101515-TP-033 (240-56689-1) was analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 10/19/2015 and analyzed on 10/20/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ALKALINITY
Sample GW-101515-TP-033 (240-56689-1) was analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on

Job ID: 240-56689-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

10/21/2015.

Carbonate Alkalinity as CaCO3 was detected in method blank MB 240-203160/52 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HARDNESS
Sample GW-101515-TP-033 (240-56689-1) was analyzed for hardness in accordance with SM 2340C. The samples were analyzed on 10/23/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS
Sample GW-101515-TP-033 (240-56689-1) was analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 10/16/2015 and 10/23/2015.

Sulfate was detected in method blank MB 240-203440/3 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE
Sample GW-101515-TP-033 (240-56689-1) was analyzed for sulfide in accordance with EPA SW-846 Method 9034. The samples were prepared and analyzed on 10/21/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON
Sample GW-101515-TP-033 (240-56689-1) was analyzed for total organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 10/19/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED ORGANIC CARBON
Sample GW-101515-TP-033 (240-56689-1) was analyzed for dissolved organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 10/20/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
2340C-1997	Hardness, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CAN
9060	Organic Carbon, Dissolved (DOC)	SW846	TAL CAN
9060	Organic Carbon, Total (TOC)	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-56689-1	GW-101515-TP-033	Water	10/15/15 09:48	10/16/15 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-1

Client Sample ID: GW-101515-TP-033

Lab Sample ID: 240-56689-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.58		0.50	0.080	ug/L	1		RSK-175	Total/NA
Manganese	9.5	J	15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	400		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	490		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	33		1.0	0.41	mg/L	1		300.0	Total/NA
Nitrate as N	7.5		0.10	0.035	mg/L	1		300.0	Total/NA
Sulfate	46		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.3		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.7		1.0	0.080	mg/L	1		9060	Dissolved

This Detection Summary does not include radiochemical test results.

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-1

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-101515-TP-033
Date Collected: 10/15/15 09:48
Date Received: 10/16/15 09:30

Lab Sample ID: 240-56689-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**0.58**		0.50	0.080	ug/L			10/24/15 17:29	1
Ethane	0.50	U	0.50	0.14	ug/L			10/24/15 17:29	1
Ethylene	0.50	U	0.50	0.13	ug/L			10/24/15 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*101*		*66 - 132*		*10/24/15 17:29*	*1*

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-101515-TP-033
Date Collected: 10/15/15 09:48
Date Received: 10/16/15 09:30

Lab Sample ID: 240-56689-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	9.5	J	15	0.46	ug/L		10/19/15 08:15	10/20/15 18:05	1

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-1

General Chemistry

Client Sample ID: GW-101515-TP-033
Date Collected: 10/15/15 09:48
Date Received: 10/16/15 09:30

Lab Sample ID: 240-56689-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**400**		5.0	1.9	mg/L			10/21/15 18:07	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/21/15 18:07	1
Hardness as calcium carbonate	**490**		25	16	mg/L			10/23/15 10:33	1
Chloride	**33**		1.0	0.41	mg/L			10/23/15 17:44	1
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/16/15 23:44	1
Nitrate as N	**7.5**		0.10	0.035	mg/L			10/16/15 23:44	1
Sulfate	**46**		1.0	0.13	mg/L			10/16/15 23:44	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/21/15 07:57	10/21/15 11:38	1
Total Organic Carbon	**1.3**		1.0	0.080	mg/L			10/19/15 13:18	1

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-1

General Chemistry - Dissolved

Client Sample ID: GW-101515-TP-033
Date Collected: 10/15/15 09:48
Date Received: 10/16/15 09:30

Lab Sample ID: 240-56689-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.7		1.0	0.080	mg/L			10/20/15 08:41	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-1

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		'rifluoroet							
Lab Sample ID	**Client Sample ID**	**(66-132)**							
240-56689-1	GW-101515-TP-033	101							
LCS 240-203497/5	Lab Control Sample	107							
MB 240-203497/4	Method Blank	107							

Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-203497/4
Matrix: Water
Analysis Batch: 203497

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.50	U	0.50	0.080	ug/L			10/24/15 15:08	1
Ethane	0.50	U	0.50	0.14	ug/L			10/24/15 15:08	1
Ethylene	0.50	U	0.50	0.13	ug/L			10/24/15 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*107*		*66 - 132*		*10/24/15 15:08*	*1*

Lab Sample ID: LCS 240-203497/5
Matrix: Water
Analysis Batch: 203497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	199	224		ug/L		113	76 - 120
Ethane	374	399		ug/L		107	80 - 120
Ethylene	349	391		ug/L		112	81 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*107*		*66 - 132*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-202470/1-A
Matrix: Water
Analysis Batch: 202778

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 202470

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	0.46	ug/L		10/19/15 08:14	10/20/15 15:47	1

Lab Sample ID: LCS 240-202470/2-A
Matrix: Water
Analysis Batch: 202778

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 202470

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	463		ug/L		93	80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-203160/52
Matrix: Water
Analysis Batch: 203160

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/21/15 17:08	1
Carbonate Alkalinity as CaCO3	2.07	J	5.0	1.9	mg/L			10/21/15 17:08	1

Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-203358/4
Matrix: Water
Analysis Batch: 203358

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	5.0	U	5.0	3.1	mg/L			10/23/15 10:09	1

Lab Sample ID: LCS 240-203358/5
Matrix: Water
Analysis Batch: 203358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	170	166		mg/L		98	88 - 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-202243/3
Matrix: Water
Analysis Batch: 202243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			10/16/15 10:49	1
Sulfate	1.0	U	1.0	0.13	mg/L			10/16/15 10:49	1

Lab Sample ID: MB 240-202243/51
Matrix: Water
Analysis Batch: 202243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			10/17/15 00:50	1
Sulfate	1.0	U	1.0	0.13	mg/L			10/17/15 00:50	1

Lab Sample ID: LCS 240-202243/4
Matrix: Water
Analysis Batch: 202243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	51.0		mg/L		102	90 - 110

Lab Sample ID: LCS 240-202243/52
Matrix: Water
Analysis Batch: 202243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	54.6		mg/L		109	90 - 110

Lab Sample ID: 240-56689-1 MS
Matrix: Water
Analysis Batch: 202243

Client Sample ID: GW-101515-TP-033
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	37	*	50.0	95.5		mg/L		117	80 - 120
Sulfate	46		50.0	104		mg/L		117	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-56689-1 MSD — **Client Sample ID: GW-101515-TP-033**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	37	*	50.0	94.8		mg/L		115	80 - 120	1	20
Sulfate	46		50.0	105		mg/L		119	80 - 120	1	20

Lab Sample ID: MB 240-202244/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/16/15 10:49	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			10/16/15 10:49	1

Lab Sample ID: MB 240-202244/51 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/17/15 00:50	1
Nitrate as N	0.10	U ^	0.10	0.035	mg/L			10/17/15 00:50	1

Lab Sample ID: LCS 240-202244/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.51		mg/L		100	90 - 110
Nitrate as N	2.50	2.61		mg/L		104	90 - 110

Lab Sample ID: LCS 240-202244/52 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.51		mg/L		100	90 - 110
Nitrate as N	2.50	2.67	^	mg/L		107	90 - 110

Lab Sample ID: 240-56689-1 MS — **Client Sample ID: GW-101515-TP-033**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202244

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.10	U	2.50	2.61		mg/L		104	80 - 120

Lab Sample ID: 240-56689-1 MSD — **Client Sample ID: GW-101515-TP-033**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 202244

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.10	U	2.50	2.57		mg/L		103	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-203440/3
Matrix: Water
Analysis Batch: 203440

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			10/23/15 17:04	1
Sulfate	0.142	J	1.0	0.13	mg/L			10/23/15 17:04	1

Lab Sample ID: LCS 240-203440/4
Matrix: Water
Analysis Batch: 203440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	46.2		mg/L		92	90 - 110
Sulfate	50.0	47.4		mg/L		95	90 - 110

Lab Sample ID: 240-56689-1 MS
Matrix: Water
Analysis Batch: 203440

Client Sample ID: GW-101515-TP-033
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	33		50.0	78.1		mg/L		91	80 - 120

Lab Sample ID: 240-56689-1 MSD
Matrix: Water
Analysis Batch: 203440

Client Sample ID: GW-101515-TP-033
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	33		50.0	78.2		mg/L		91	80 - 120	0	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-202859/1-A
Matrix: Water
Analysis Batch: 202932

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202859

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	0.94	mg/L		10/21/15 07:57	10/21/15 11:28	1

Lab Sample ID: LCS 240-202859/2-A
Matrix: Water
Analysis Batch: 202932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	8.80	8.27		mg/L		94	70 - 130

Lab Sample ID: 240-56689-1 MS
Matrix: Water
Analysis Batch: 202932

Client Sample ID: GW-101515-TP-033
Prep Type: Total/NA
Prep Batch: 202859

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	3.0	U	8.80	7.87		mg/L		89	27 - 124

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 240-56689-1 MSD
Matrix: Water
Analysis Batch: 202932

Client Sample ID: GW-101515-TP-033
Prep Type: Total/NA
Prep Batch: 202859

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	3.0	U	8.80	7.47		mg/L		85	27 - 124	5	20

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-202657/4
Matrix: Water
Analysis Batch: 202657

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.080	mg/L			10/19/15 10:01	1

Lab Sample ID: LCS 240-202657/6
Matrix: Water
Analysis Batch: 202657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	69.3	70.3		mg/L		102	88 - 115

Lab Sample ID: LLCS 240-202657/5
Matrix: Water
Analysis Batch: 202657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	6.93	7.09		mg/L		102	88 - 115

Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-202834/4
Matrix: Water
Analysis Batch: 202834

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.0	U	1.0	0.080	mg/L			10/20/15 08:11	1

Lab Sample ID: LCS 240-202834/6
Matrix: Water
Analysis Batch: 202834

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	69.3	70.0		mg/L		101	88 - 115

Lab Sample ID: LLCS 240-202834/5
Matrix: Water
Analysis Batch: 202834

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	6.93	7.00		mg/L		101	88 - 115

Method: 9060 - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: 240-56689-1 MS
Matrix: Water
Analysis Batch: 202834

Client Sample ID: GW-101515-TP-033
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dissolved Organic Carbon	1.7		25.0	26.6		mg/L		100	72 - 136		

Lab Sample ID: 240-56689-1 MSD
Matrix: Water
Analysis Batch: 202834

Client Sample ID: GW-101515-TP-033
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Organic Carbon	1.7		25.0	26.7		mg/L		100	72 - 136	0	20

GC VOA

Analysis Batch: 203497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56689-1	GW-101515-TP-033	Total/NA	Water	RSK-175	
LCS 240-203497/5	Lab Control Sample	Total/NA	Water	RSK-175	
MB 240-203497/4	Method Blank	Total/NA	Water	RSK-175	

Metals

Prep Batch: 202470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56689-1	GW-101515-TP-033	Dissolved	Water	3005A	
LCS 240-202470/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-202470/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 202778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56689-1	GW-101515-TP-033	Dissolved	Water	6010B	202470
LCS 240-202470/2-A	Lab Control Sample	Total Recoverable	Water	6010B	202470
MB 240-202470/1-A	Method Blank	Total Recoverable	Water	6010B	202470

General Chemistry

Analysis Batch: 202243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56689-1	GW-101515-TP-033	Total/NA	Water	300.0	
240-56689-1 MS	GW-101515-TP-033	Total/NA	Water	300.0	
240-56689-1 MSD	GW-101515-TP-033	Total/NA	Water	300.0	
LCS 240-202243/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 240-202243/52	Lab Control Sample	Total/NA	Water	300.0	
MB 240-202243/3	Method Blank	Total/NA	Water	300.0	
MB 240-202243/51	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 202244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56689-1	GW-101515-TP-033	Total/NA	Water	300.0	
240-56689-1 MS	GW-101515-TP-033	Total/NA	Water	300.0	
240-56689-1 MSD	GW-101515-TP-033	Total/NA	Water	300.0	
LCS 240-202244/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 240-202244/52	Lab Control Sample	Total/NA	Water	300.0	
MB 240-202244/3	Method Blank	Total/NA	Water	300.0	
MB 240-202244/51	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 202657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56689-1	GW-101515-TP-033	Total/NA	Water	9060	
LCS 240-202657/6	Lab Control Sample	Total/NA	Water	9060	
LLCS 240-202657/5	Lab Control Sample	Total/NA	Water	9060	
MB 240-202657/4	Method Blank	Total/NA	Water	9060	

Analysis Batch: 202834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56689-1	GW-101515-TP-033	Dissolved	Water	9060	

General Chemistry (Continued)

Analysis Batch: 202834 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56689-1 MS	GW-101515-TP-033	Dissolved	Water	9060	
240-56689-1 MSD	GW-101515-TP-033	Dissolved	Water	9060	
LCS 240-202834/6	Lab Control Sample	Dissolved	Water	9060	
LLCS 240-202834/5	Lab Control Sample	Dissolved	Water	9060	
MB 240-202834/4	Method Blank	Dissolved	Water	9060	

Prep Batch: 202859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56689-1	GW-101515-TP-033	Total/NA	Water	9030B	
240-56689-1 MS	GW-101515-TP-033	Total/NA	Water	9030B	
240-56689-1 MSD	GW-101515-TP-033	Total/NA	Water	9030B	
LCS 240-202859/2-A	Lab Control Sample	Total/NA	Water	9030B	
MB 240-202859/1-A	Method Blank	Total/NA	Water	9030B	

Analysis Batch: 202932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56689-1	GW-101515-TP-033	Total/NA	Water	9034	202859
240-56689-1 MS	GW-101515-TP-033	Total/NA	Water	9034	202859
240-56689-1 MSD	GW-101515-TP-033	Total/NA	Water	9034	202859
LCS 240-202859/2-A	Lab Control Sample	Total/NA	Water	9034	202859
MB 240-202859/1-A	Method Blank	Total/NA	Water	9034	202859

Analysis Batch: 203160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56689-1	GW-101515-TP-033	Total/NA	Water	2320B-1997	
MB 240-203160/52	Method Blank	Total/NA	Water	2320B-1997	

Analysis Batch: 203358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56689-1	GW-101515-TP-033	Total/NA	Water	2340C-1997	
LCS 240-203358/5	Lab Control Sample	Total/NA	Water	2340C-1997	
MB 240-203358/4	Method Blank	Total/NA	Water	2340C-1997	

Analysis Batch: 203440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56689-1	GW-101515-TP-033	Total/NA	Water	300.0	
240-56689-1 MS	GW-101515-TP-033	Total/NA	Water	300.0	
240-56689-1 MSD	GW-101515-TP-033	Total/NA	Water	300.0	
LCS 240-203440/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-203440/3	Method Blank	Total/NA	Water	300.0	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-1

Client Sample ID: GW-101515-TP-033
Date Collected: 10/15/15 09:48
Date Received: 10/16/15 09:30

Lab Sample ID: 240-56689-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	203497	10/24/15 17:29	BPM	TAL CAN
Dissolved	Prep	3005A			202470	10/19/15 08:15	WKD	TAL CAN
Dissolved	Analysis	6010B		1	202778	10/20/15 18:05	WAL	TAL CAN
Total/NA	Analysis	2320B-1997		1	203160	10/21/15 18:07	JMB	TAL CAN
Total/NA	Analysis	2340C-1997		1	203358	10/23/15 10:33	TPH	TAL CAN
Total/NA	Analysis	300.0		1	202243	10/16/15 23:44	LKG	TAL CAN
Total/NA	Analysis	300.0		1	202244	10/16/15 23:44	LKG	TAL CAN
Total/NA	Analysis	300.0		1	203440	10/23/15 17:44	LKG	TAL CAN
Total/NA	Prep	9030B			202859	10/21/15 07:57	BLW	TAL CAN
Total/NA	Analysis	9034		1	202932	10/21/15 11:38	BLW	TAL CAN
Dissolved	Analysis	9060		1	202834	10/20/15 08:41	TPH	TAL CAN
Total/NA	Analysis	9060		1	202657	10/19/15 13:18	TPH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	10-30-15 *
New York	NELAP	2	10975	03-31-16
Ohio VAP	State Program	5	CL0024	10-31-15 *
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-56689 Chain of Custody

2.6/C#,1

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 03941
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 07302/1007/CRA15	**Laboratory Name:** Test America	**Lab Location:** North Canton, OH	**SSOW ID:** 07302-T07
Project Name: RACER Mark	**Lab Contact:** Denise Heckler	**Lab Quote No:** Lab PM 24007143	**Cooler No:** 1 of 1
Project Location: Anderson, IN			**Carrier:** FedEx
Chemistry Contact: Deb Andraska			**Airbill No:** 6443 7521 2860
Sampler(s): Tim Ramey			**Date Shipped:** 10/15/15

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd//yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC, PAH, Cyanides	TOC	DOC *	Sulfide	Hardness	Alk, Carb & Bicarb	Chloride, Sulfate	Nitrate Nitrite *	Diss Manganese *	Diss Gases	MS/MSD Request	Comments/ Special Instructions:
1	GW-101515-TP-033	10/15/15	9:48	GW	G	2	6	2	4				1	15	X	X	X	X	X	X	X	X	X	X		
2	RB-101515-TP-004	10/15/15	10:10	WQ	G		3							3	X											
3	TB-101515-TP-004	10/15/15	10:45	WQ	G		1							1	X											
4																										
5																										
6																										
7																										
8																										
9																										* Field Filtered
10																										
11																										
12																										
13																										
14																										
15																										

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 19

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	GHD	10/15/15	15:30	1.	TA-Canton	10/16/15	930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

Page 25 of 27

10/26/2015

TestAmerica Canton Sample Receipt Form/Narrative Login # : 50489
Canton Facility

Client GHD Site Name Pace

Cooler unpacked by:

Cooler Received on 10/16/15 Opened on 10/16/15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box ~~Client Cooler~~ Box Other

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other

COOLANT: ~~Wet Ice~~ Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

~~IR GUN# A (CF +1.0 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

☐ See Multiple Cooler Form

IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 1.1 °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC554612
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # N/A Yes No

Contacted PM Date by via Verbal Voice Mail Other
Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101515-TP-033	240-56689-L-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101515-TP-033	240-56689-N-1	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-101515-TP-033	240-56689-O-1	Plastic 500ml - with Zn Acetate and	>9	_____	_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-56689-2
Client Project/Site: 17302-T07, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
10/27/2015 9:59:14 AM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-56689-2

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 17302-T07, RACER Delphi Anderson

Report Number: 240-56689-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 10/16/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.1 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GW-101515-TP-033 (240-56689-1), RB-101515-TP-004 (240-56689-2) and TB-101515-TP-004 (240-56689-3) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/25/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-56689-1	GW-101515-TP-033	Water	10/15/15 09:48	10/16/15 09:30
240-56689-2	RB-101515-TP-004	Water	10/15/15 10:10	10/16/15 09:30
240-56689-3	TB-101515-TP-004	Water	10/15/15 10:45	10/16/15 09:30

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-2

Client Sample ID: GW-101515-TP-033 — Lab Sample ID: 240-56689-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.1		1.0	0.44	ug/L	1		8260B	Total/NA

Client Sample ID: RB-101515-TP-004 — Lab Sample ID: 240-56689-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.82	J	10	0.53	ug/L	1		8260B	Total/NA

Client Sample ID: TB-101515-TP-004 — Lab Sample ID: 240-56689-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	10	0.94	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	0.81	J	10	0.53	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: GW-101515-TP-033
Date Collected: 10/15/15 09:48
Date Received: 10/16/15 09:30

Lab Sample ID: 240-56689-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.1**		1.0	0.44	ug/L			10/25/15 15:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/25/15 15:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/25/15 15:34	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/25/15 15:34	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/25/15 15:34	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/25/15 15:34	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/25/15 15:34	1
2-Hexanone	10	U	10	0.48	ug/L			10/25/15 15:34	1
Acetone	10	U	10	0.94	ug/L			10/25/15 15:34	1
Benzene	1.0	U	1.0	0.35	ug/L			10/25/15 15:34	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/25/15 15:34	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/25/15 15:34	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/25/15 15:34	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/25/15 15:34	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/25/15 15:34	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/25/15 15:34	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/25/15 15:34	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/25/15 15:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/25/15 15:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/25/15 15:34	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/25/15 15:34	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/25/15 15:34	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/25/15 15:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/25/15 15:34	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/25/15 15:34	1
Styrene	1.0	U	1.0	0.45	ug/L			10/25/15 15:34	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/25/15 15:34	1
Toluene	1.0	U	1.0	0.23	ug/L			10/25/15 15:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/25/15 15:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/25/15 15:34	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/25/15 15:34	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/25/15 15:34	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/25/15 15:34	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/25/15 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*78 - 125*		*10/25/15 15:34*	*1*
4-Bromofluorobenzene (Surr)	*94*		*61 - 120*		*10/25/15 15:34*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/25/15 15:34*	*1*
Dibromofluoromethane (Surr)	*93*		*79 - 120*		*10/25/15 15:34*	*1*

Client Sample ID: RB-101515-TP-004
Date Collected: 10/15/15 10:10
Date Received: 10/16/15 09:30

Lab Sample ID: 240-56689-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/25/15 15:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/25/15 15:57	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/25/15 15:57	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/25/15 15:57	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/25/15 15:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-101515-TP-004
Date Collected: 10/15/15 10:10
Date Received: 10/16/15 09:30

Lab Sample ID: 240-56689-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/25/15 15:57	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/25/15 15:57	1
2-Hexanone	10	U	10	0.48	ug/L			10/25/15 15:57	1
Acetone	10	U	10	0.94	ug/L			10/25/15 15:57	1
Benzene	1.0	U	1.0	0.35	ug/L			10/25/15 15:57	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/25/15 15:57	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/25/15 15:57	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/25/15 15:57	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/25/15 15:57	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/25/15 15:57	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/25/15 15:57	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/25/15 15:57	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/25/15 15:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/25/15 15:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/25/15 15:57	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/25/15 15:57	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/25/15 15:57	1
2-Butanone (MEK)	**0.82**	**J**	10	0.53	ug/L			10/25/15 15:57	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/25/15 15:57	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/25/15 15:57	1
Styrene	1.0	U	1.0	0.45	ug/L			10/25/15 15:57	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/25/15 15:57	1
Toluene	1.0	U	1.0	0.23	ug/L			10/25/15 15:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/25/15 15:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/25/15 15:57	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/25/15 15:57	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/25/15 15:57	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/25/15 15:57	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/25/15 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*78 - 125*		*10/25/15 15:57*	*1*
4-Bromofluorobenzene (Surr)	*91*		*61 - 120*		*10/25/15 15:57*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/25/15 15:57*	*1*
Dibromofluoromethane (Surr)	*91*		*79 - 120*		*10/25/15 15:57*	*1*

Client Sample ID: TB-101515-TP-004
Date Collected: 10/15/15 10:45
Date Received: 10/16/15 09:30

Lab Sample ID: 240-56689-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/25/15 16:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/25/15 16:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/25/15 16:20	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/25/15 16:20	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/25/15 16:20	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/25/15 16:20	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/25/15 16:20	1
2-Hexanone	10	U	10	0.48	ug/L			10/25/15 16:20	1
Acetone	**1.4**	**J**	10	0.94	ug/L			10/25/15 16:20	1
Benzene	1.0	U	1.0	0.35	ug/L			10/25/15 16:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-101515-TP-004
Date Collected: 10/15/15 10:45
Date Received: 10/16/15 09:30

Lab Sample ID: 240-56689-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	1.0	U	1.0	0.56	ug/L			10/25/15 16:20	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/25/15 16:20	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/25/15 16:20	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/25/15 16:20	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/25/15 16:20	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/25/15 16:20	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/25/15 16:20	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/25/15 16:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/25/15 16:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/25/15 16:20	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/25/15 16:20	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/25/15 16:20	1
2-Butanone (MEK)	**0.81**	**J**	10	0.53	ug/L			10/25/15 16:20	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/25/15 16:20	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/25/15 16:20	1
Styrene	1.0	U	1.0	0.45	ug/L			10/25/15 16:20	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/25/15 16:20	1
Toluene	1.0	U	1.0	0.23	ug/L			10/25/15 16:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/25/15 16:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/25/15 16:20	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/25/15 16:20	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/25/15 16:20	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/25/15 16:20	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/25/15 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*78 - 125*		*10/25/15 16:20*	*1*
4-Bromofluorobenzene (Surr)	*90*		*61 - 120*		*10/25/15 16:20*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/25/15 16:20*	*1*
Dibromofluoromethane (Surr)	*95*		*79 - 120*		*10/25/15 16:20*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-125)	(61-120)	(80-120)	(79-120)
240-56689-1	GW-101515-TP-033	95	94	95	93
240-56689-2	RB-101515-TP-004	96	91	94	91
240-56689-3	TB-101515-TP-004	94	90	94	95
LCS 240-203522/4	Lab Control Sample	96	92	94	95
MB 240-203522/6	Method Blank	93	90	96	93

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-203522/6
Matrix: Water
Analysis Batch: 203522

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/25/15 10:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/25/15 10:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/25/15 10:15	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/25/15 10:15	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/25/15 10:15	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/25/15 10:15	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/25/15 10:15	1
2-Hexanone	10	U	10	0.48	ug/L			10/25/15 10:15	1
Acetone	10	U	10	0.94	ug/L			10/25/15 10:15	1
Benzene	1.0	U	1.0	0.35	ug/L			10/25/15 10:15	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/25/15 10:15	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/25/15 10:15	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/25/15 10:15	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/25/15 10:15	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/25/15 10:15	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/25/15 10:15	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/25/15 10:15	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/25/15 10:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/25/15 10:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/25/15 10:15	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/25/15 10:15	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/25/15 10:15	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/25/15 10:15	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/25/15 10:15	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/25/15 10:15	1
Styrene	1.0	U	1.0	0.45	ug/L			10/25/15 10:15	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/25/15 10:15	1
Toluene	1.0	U	1.0	0.23	ug/L			10/25/15 10:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/25/15 10:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/25/15 10:15	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/25/15 10:15	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/25/15 10:15	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/25/15 10:15	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/25/15 10:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*78 - 125*		*10/25/15 10:15*	*1*
4-Bromofluorobenzene (Surr)	*90*		*61 - 120*		*10/25/15 10:15*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/25/15 10:15*	*1*
Dibromofluoromethane (Surr)	*93*		*79 - 120*		*10/25/15 10:15*	*1*

Lab Sample ID: LCS 240-203522/4
Matrix: Water
Analysis Batch: 203522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			10.0	9.82		ug/L		98	77 - 123		
1,1,2,2-Tetrachloroethane			10.0	10.2		ug/L		102	71 - 123		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-203522/4
Matrix: Water
Analysis Batch: 203522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	80 - 120
1,1-Dichloroethane	10.0	9.96		ug/L		100	79 - 125
1,1-Dichloroethene	10.0	9.73		ug/L		97	76 - 124
1,2-Dichloroethane	10.0	10.5		ug/L		105	80 - 120
1,2-Dichloropropane	10.0	10.1		ug/L		101	78 - 124
2-Hexanone	20.0	18.3		ug/L		92	55 - 141
Acetone	20.0	17.3		ug/L		86	34 - 148
Benzene	10.0	10.1		ug/L		101	80 - 120
Bromoform	10.0	9.69		ug/L		97	56 - 122
Bromomethane	10.0	6.54		ug/L		65	38 - 132
Carbon disulfide	10.0	8.75		ug/L		87	65 - 144
Carbon tetrachloride	10.0	10.5		ug/L		105	77 - 131
Chlorobenzene	10.0	10.0		ug/L		100	80 - 120
Chloroethane	10.0	6.44		ug/L		64	36 - 126
Chloroform	10.0	10.0		ug/L		100	80 - 120
Chloromethane	10.0	8.59		ug/L		86	48 - 133
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	79 - 120
cis-1,3-Dichloropropene	10.0	10.1		ug/L		101	74 - 126
Dichlorobromomethane	10.0	9.89		ug/L		99	80 - 120
Ethylbenzene	10.0	9.57		ug/L		96	80 - 120
m-Xylene & p-Xylene	10.0	10.0		ug/L		100	80 - 120
2-Butanone (MEK)	20.0	18.1		ug/L		90	56 - 138
4-Methyl-2-pentanone (MIBK)	20.0	19.5		ug/L		98	64 - 135
Methylene Chloride	10.0	10.8		ug/L		108	77 - 129
o-Xylene	10.0	10.0		ug/L		100	80 - 120
Styrene	10.0	9.36		ug/L		94	76 - 122
Tetrachloroethene	10.0	9.95		ug/L		100	78 - 121
Toluene	10.0	9.92		ug/L		99	80 - 120
trans-1,2-Dichloroethene	10.0	9.63		ug/L		96	80 - 124
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	75 - 131
Trichloroethene	10.0	10.3		ug/L		103	80 - 121
Vinyl chloride	10.0	7.67		ug/L		77	52 - 121
Xylenes, Total	20.0	20.0		ug/L		100	80 - 120
Chlorodibromomethane	10.0	10.1		ug/L		101	74 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*78 - 125*
4-Bromofluorobenzene (Surr)	*92*		*61 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*79 - 120*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-2

GC/MS VOA

Analysis Batch: 203522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56689-1	GW-101515-TP-033	Total/NA	Water	8260B	
240-56689-2	RB-101515-TP-004	Total/NA	Water	8260B	
240-56689-3	TB-101515-TP-004	Total/NA	Water	8260B	
LCS 240-203522/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-203522/6	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-2

Client Sample ID: GW-101515-TP-033

Lab Sample ID: 240-56689-1
Date Collected: 10/15/15 09:48
Matrix: Water
Date Received: 10/16/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	203522	10/25/15 15:34	RJQ	TAL CAN

Client Sample ID: RB-101515-TP-004

Lab Sample ID: 240-56689-2
Date Collected: 10/15/15 10:10
Matrix: Water
Date Received: 10/16/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	203522	10/25/15 15:57	RJQ	TAL CAN

Client Sample ID: TB-101515-TP-004

Lab Sample ID: 240-56689-3
Date Collected: 10/15/15 10:45
Matrix: Water
Date Received: 10/16/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	203522	10/25/15 16:20	RJQ	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56689-2

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	10-30-15 *
New York	NELAP	2	10975	03-31-16
Ohio VAP	State Program	5	CL0024	10-31-15 *
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-56689 Chain of Custody

2.6/C#1

CHAIN OF CUSTODY RECORD

COC NO.: IN- 03941

PAGE 1 OF 1

(See Reverse Side for Instructions)

CONESTOGA-ROVERS & ASSOCIATES

6520 Corporate Drive, Indianapolis, Indiana 46278

Phone: (317) 291-7007 Fax: (317) 328-2666

Project No/ Phase/Task Code: 07302/1007/CRA15	**Laboratory Name:** Test America	**Lab Location:** North Canton, OH	**SSOW ID:** 07302-T07
Project Name: RACER Mark	**Lab Contact:** Denise Heckler	**Lab Quote No:** Lab PM 24007143	**Cooler No:** 1 of 1
Project Location: Anderson, IN			**Carrier:** FedEx
Chemistry Contact: Deb Andraska			**Airbill No:** 6443 7521 2860
Sampler(s): Tim Ramey			**Date Shipped:** 10/15/15

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd//yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC, PCB's, TCL	TOC	DOC *	Cl, Br, F, SO4	Hardness	Alk, Carb & Bicarb	Chloride, Sulfate	Nitrate, Nitrite *	Diss Manganese *	Diss Gases	MS/MSD Request	Comments/ Special Instructions:
1	GW-101515-TP-033	10/15/15	9:48	GW	G	2	6	2	4				1	15	X	X	X	X	X	X	X	X	X	X	X	
2	RB-101515-TP-004	10/15/15	10:10	WQ	G		3							3	X											
3	TB-101515-TP-004	10/15/15	10:45	WQ	G		1							1	X											
4																										
5																										
6																										
7																										
8																										
9																										* Field Filtered
10																										
11																										
12																										
13																										
14																										
15																										

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 19

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	GTO	10/15/15	15:30	1.	TA-Canton	10/16/15	930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

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10/27/2015

TestAmerica Canton Sample Receipt Form/Narrative Login # : 50489
Canton Facility

Client GHD Site Name Pacer Cooler unpacked by:

Cooler Received on 10/16/15 Opened on 10/16/15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box ~~Client Cooler~~ Box Other

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other

COOLANT: ~~Wet Ice~~ Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

~~IR GUN# A (CF +1.0 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

☐ See Multiple Cooler Form

IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 1.1 °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? ~~Yes~~ No
3. Shippers' packing slip attached to the cooler(s)? ~~Yes~~ No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC554612
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # N/A Yes No

Contacted PM Date by via Verbal Voice Mail Other
Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101515-TP-033	240-56689-L-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-101515-TP-033	240-56689-N-1	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-101515-TP-033	240-56689-O-1	Plastic 500ml - with Zn Acetate and	>9	_____	_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-56881-1
Client Project/Site: 17302-T07, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
10/30/2015 11:39:11 AM

Denise Heckler, Project Manager II
(330)966-9477
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LINKS

Review your project results through TotalAccess

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-56881-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 17302-T07, RACER Delphi Anderson

Report Number: 240-56881-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 10/21/2015; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.1º C, 2.1º C and 4.5º C.

Sample GW-101915-TP-038 should only be run for VOC's only. COC was improperly filled out for that sample. No revised COC was provided.

Sample WW-102015-TP-001 can be found in job series 2: 240-56881-2.

DISSOLVED GASES

Samples GW-101915-TP-034 (240-56881-1), GW-101915-TP-035 (240-56881-2), GW-101915-TP-036 (240-56881-3), GW-101915-TP-037 (240-56881-4), GW-102015-TP-042 (240-56881-10) and GW-102015-TP-043 (240-56881-11) were analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 10/28/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)

Samples GW-101915-TP-034 (240-56881-1), GW-101915-TP-035 (240-56881-2), GW-101915-TP-036 (240-56881-3),

Job ID: 240-56881-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

GW-101915-TP-037 (240-56881-4), GW-102015-TP-042 (240-56881-10) and GW-102015-TP-043 (240-56881-11) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 10/22/2015 and analyzed on 10/23/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ALKALINITY
Samples GW-101915-TP-034 (240-56881-1), GW-101915-TP-035 (240-56881-2), GW-101915-TP-036 (240-56881-3), GW-101915-TP-037 (240-56881-4), GW-102015-TP-042 (240-56881-10) and GW-102015-TP-043 (240-56881-11) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 10/26/2015 and 10/27/2015.

Carbonate Alkalinity as CaCO3 was detected in method blank MB 240-203811/36 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Bicarbonate Alkalinity as CaCO3 and Carbonate Alkalinity as CaCO3 were detected in method blank MB 240-203811/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HARDNESS
Samples GW-101915-TP-034 (240-56881-1), GW-101915-TP-035 (240-56881-2), GW-101915-TP-036 (240-56881-3), GW-101915-TP-037 (240-56881-4), GW-102015-TP-042 (240-56881-10) and GW-102015-TP-043 (240-56881-11) were analyzed for hardness in accordance with SM 2340C. The samples were analyzed on 10/23/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS
Samples GW-101915-TP-034 (240-56881-1), GW-101915-TP-035 (240-56881-2), GW-101915-TP-036 (240-56881-3), GW-101915-TP-037 (240-56881-4), GW-102015-TP-042 (240-56881-10) and GW-102015-TP-043 (240-56881-11) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 10/22/2015 and 10/24/2015.

Nitrate as N failed the recovery criteria high for LCS 240-203108/5. These analytes were biased high in the LCS and were not detecte in the associated samples; therefore, the data have been reported.

The following samples were analyzed outside of analytical holding time due to equipment failure: GW-101915-TP-034 (240-56881-1), GW-101915-TP-034 (240-56881-1[MS]), GW-101915-TP-034 (240-56881-1[MSD]), GW-101915-TP-035 (240-56881-2), GW-101915-TP-036 (240-56881-3), GW-101915-TP-037 (240-56881-4) and GW-102015-TP-043 (240-56881-1

The following sample was analyzed outside of analytical holding time due to lab oversight: GW-102015-TP-042 (240-56881-10).

Nitrite as N failed the recovery criteria high for the MS of sample GW-101915-TP-034MS (240-56881-1) in batch 240-203108.

Nitrite as N failed the recovery criteria high for the MSD of sample GW-101915-TP-034MSD (240-56881-1) in batch 240-203108.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS
Samples GW-101915-TP-034 (240-56881-1), GW-101915-TP-035 (240-56881-2), GW-101915-TP-036 (240-56881-3), GW-101915-TP-037 (240-56881-4), GW-102015-TP-042 (240-56881-10) and GW-102015-TP-043 (240-56881-11) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 10/22/2015, 10/24/2015 and 10/27/2015.

Sulfate failed the recovery criteria high for the MS of sample GW-102015-TP-042MS (240-56881-10) in batch 240-203107.

Job ID: 240-56881-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Sulfate failed the recovery criteria high for the MSD of sample GW-102015-TP-042MSD (240-56881-10) in batch 240-203107.

Sulfate failed the recovery criteria high for the MS of sample GW-101915-TP-034MS (240-56881-1) in batch 240-203107.

Sulfate failed the recovery criteria high for the MSD of sample GW-101915-TP-034MSD (240-56881-1) in batch 240-203107.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Samples GW-101915-TP-034 (240-56881-1), GW-101915-TP-035 (240-56881-2), GW-101915-TP-036 (240-56881-3), GW-101915-TP-037 (240-56881-4), GW-102015-TP-042 (240-56881-10) and GW-102015-TP-043 (240-56881-11) were analyzed for sulfide in accordance with EPA SW-846 Method 9034. The samples were prepared and analyzed on 10/22/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON

Samples GW-101915-TP-034 (240-56881-1), GW-101915-TP-035 (240-56881-2), GW-101915-TP-036 (240-56881-3), GW-101915-TP-037 (240-56881-4), GW-102015-TP-042 (240-56881-10) and GW-102015-TP-043 (240-56881-11) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 10/26/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED ORGANIC CARBON

Samples GW-101915-TP-034 (240-56881-1), GW-101915-TP-035 (240-56881-2), GW-101915-TP-036 (240-56881-3), GW-101915-TP-037 (240-56881-4), GW-102015-TP-042 (240-56881-10) and GW-102015-TP-043 (240-56881-11) were analyzed for dissolved organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 10/29/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
2340C-1997	Hardness, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CAN
9060	Organic Carbon, Dissolved (DOC)	SW846	TAL CAN
9060	Organic Carbon, Total (TOC)	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-56881-1	GW-101915-TP-034	Water	10/19/15 11:12	10/21/15 16:19
240-56881-2	GW-101915-TP-035	Water	10/19/15 12:24	10/21/15 16:19
240-56881-3	GW-101915-TP-036	Water	10/19/15 13:33	10/21/15 16:19
240-56881-4	GW-101915-TP-037	Water	10/19/15 14:34	10/21/15 16:19
240-56881-10	GW-102015-TP-042	Water	10/20/15 10:27	10/21/15 16:19
240-56881-11	GW-102015-TP-043	Water	10/20/15 10:35	10/21/15 16:19

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-1

Client Sample ID: GW-101915-TP-034 — Lab Sample ID: 240-56881-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	22		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethane	2.0		0.50	0.14	ug/L	1		RSK-175	Total/NA
Ethylene	31		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	140		15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	410		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	430		10	6.2	mg/L	1		2340C-1997	Total/NA
Chloride	62		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	77	F1	1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.8		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	2.0		1.0	0.080	mg/L	1		9060	Dissolved

Client Sample ID: GW-101915-TP-035 — Lab Sample ID: 240-56881-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	20		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethane	1.8		0.50	0.14	ug/L	1		RSK-175	Total/NA
Ethylene	6.1		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	160		15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	410		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	430		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	120		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	74		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	1.8		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.8		1.0	0.080	mg/L	1		9060	Dissolved

Client Sample ID: GW-101915-TP-036 — Lab Sample ID: 240-56881-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	57		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethane	0.83		0.50	0.14	ug/L	1		RSK-175	Total/NA
Ethylene	0.93		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	310		15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	440		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	510		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	28		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	120		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	2.7		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	2.4		1.0	0.080	mg/L	1		9060	Dissolved

Client Sample ID: GW-101915-TP-037 — Lab Sample ID: 240-56881-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	15		0.50	0.080	ug/L	1		RSK-175	Total/NA
Manganese	87		15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	430		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	490		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	25		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	76		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	2.7		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	2.4		1.0	0.080	mg/L	1		9060	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-1

Client Sample ID: GW-102015-TP-042 — Lab Sample ID: 240-56881-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	9.4		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethane	0.55		0.50	0.14	ug/L	1		RSK-175	Total/NA
Ethylene	0.72		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	410		15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	440		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	510		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	43		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	110	F1	1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	2.3		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.7		1.0	0.080	mg/L	1		9060	Dissolved

Client Sample ID: GW-102015-TP-043 — Lab Sample ID: 240-56881-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	10		0.50	0.080	ug/L	1		RSK-175	Total/NA
Ethane	0.58		0.50	0.14	ug/L	1		RSK-175	Total/NA
Ethylene	0.72		0.50	0.13	ug/L	1		RSK-175	Total/NA
Manganese	390		15	0.46	ug/L	1		6010B	Dissolved
Bicarbonate Alkalinity as CaCO3	440		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Hardness as calcium carbonate	510		25	16	mg/L	1		2340C-1997	Total/NA
Chloride	42		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	110		1.0	0.13	mg/L	1		300.0	Total/NA
Total Organic Carbon	2.2		1.0	0.080	mg/L	1		9060	Total/NA
Dissolved Organic Carbon	1.8		1.0	0.080	mg/L	1		9060	Dissolved

This Detection Summary does not include radiochemical test results.

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-101915-TP-034
Date Collected: 10/19/15 11:12
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**22**		0.50	0.080	ug/L			10/28/15 15:12	1
Ethane	**2.0**		0.50	0.14	ug/L			10/28/15 15:12	1
Ethylene	**31**		0.50	0.13	ug/L			10/28/15 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*81*		*66 - 132*		*10/28/15 15:12*	*1*

Client Sample ID: GW-101915-TP-035
Date Collected: 10/19/15 12:24
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**20**		0.50	0.080	ug/L			10/28/15 15:59	1
Ethane	**1.8**		0.50	0.14	ug/L			10/28/15 15:59	1
Ethylene	**6.1**		0.50	0.13	ug/L			10/28/15 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*83*		*66 - 132*		*10/28/15 15:59*	*1*

Client Sample ID: GW-101915-TP-036
Date Collected: 10/19/15 13:33
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**57**		0.50	0.080	ug/L			10/28/15 16:15	1
Ethane	**0.83**		0.50	0.14	ug/L			10/28/15 16:15	1
Ethylene	**0.93**		0.50	0.13	ug/L			10/28/15 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*80*		*66 - 132*		*10/28/15 16:15*	*1*

Client Sample ID: GW-101915-TP-037
Date Collected: 10/19/15 14:34
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**15**		0.50	0.080	ug/L			10/28/15 16:31	1
Ethane	0.50	U	0.50	0.14	ug/L			10/28/15 16:31	1
Ethylene	0.50	U	0.50	0.13	ug/L			10/28/15 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*79*		*66 - 132*		*10/28/15 16:31*	*1*

Client Sample ID: GW-102015-TP-042
Date Collected: 10/20/15 10:27
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**9.4**		0.50	0.080	ug/L			10/28/15 16:47	1
Ethane	**0.55**		0.50	0.14	ug/L			10/28/15 16:47	1
Ethylene	**0.72**		0.50	0.13	ug/L			10/28/15 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*79*		*66 - 132*		*10/28/15 16:47*	*1*

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-1

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-102015-TP-043
Date Collected: 10/20/15 10:35
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	10		0.50	0.080	ug/L			10/28/15 17:02	1
Ethane	0.58		0.50	0.14	ug/L			10/28/15 17:02	1
Ethylene	0.72		0.50	0.13	ug/L			10/28/15 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*81*		*66 - 132*		*10/28/15 17:02*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-101915-TP-034
Date Collected: 10/19/15 11:12
Date Received: 10/21/15 16:19
Lab Sample ID: 240-56881-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	140		15	0.46	ug/L		10/22/15 10:45	10/23/15 15:17	1

Client Sample ID: GW-101915-TP-035
Date Collected: 10/19/15 12:24
Date Received: 10/21/15 16:19
Lab Sample ID: 240-56881-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	160		15	0.46	ug/L		10/22/15 10:45	10/23/15 15:48	1

Client Sample ID: GW-101915-TP-036
Date Collected: 10/19/15 13:33
Date Received: 10/21/15 16:19
Lab Sample ID: 240-56881-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	310		15	0.46	ug/L		10/22/15 10:45	10/23/15 15:52	1

Client Sample ID: GW-101915-TP-037
Date Collected: 10/19/15 14:34
Date Received: 10/21/15 16:19
Lab Sample ID: 240-56881-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	87		15	0.46	ug/L		10/22/15 10:45	10/23/15 16:01	1

Client Sample ID: GW-102015-TP-042
Date Collected: 10/20/15 10:27
Date Received: 10/21/15 16:19
Lab Sample ID: 240-56881-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	410		15	0.46	ug/L		10/22/15 10:45	10/23/15 16:05	1

Client Sample ID: GW-102015-TP-043
Date Collected: 10/20/15 10:35
Date Received: 10/21/15 16:19
Lab Sample ID: 240-56881-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	390		15	0.46	ug/L		10/22/15 10:45	10/23/15 15:57	1

General Chemistry

Client Sample ID: GW-101915-TP-034
Date Collected: 10/19/15 11:12
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**410**		5.0	1.9	mg/L			10/26/15 22:45	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/26/15 22:45	1
Hardness as calcium carbonate	**430**		10	6.2	mg/L			10/23/15 10:58	1
Chloride	**62**		1.0	0.41	mg/L			10/24/15 06:45	1
Nitrite as N	0.10	U H F1	0.10	0.038	mg/L			10/22/15 11:32	1
Nitrate as N	0.10	U H *	0.10	0.035	mg/L			10/22/15 11:32	1
Sulfate	**77**	**F1**	1.0	0.13	mg/L			10/22/15 11:32	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/22/15 08:03	10/22/15 10:44	1
Total Organic Carbon	**1.8**		1.0	0.080	mg/L			10/26/15 09:05	1

Client Sample ID: GW-101915-TP-035
Date Collected: 10/19/15 12:24
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**410**		5.0	1.9	mg/L			10/26/15 23:36	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/26/15 23:36	1
Hardness as calcium carbonate	**430**		25	16	mg/L			10/23/15 10:45	1
Chloride	**120**		1.0	0.41	mg/L			10/24/15 07:45	1
Nitrite as N	0.10	U H	0.10	0.038	mg/L			10/22/15 12:27	1
Nitrate as N	0.10	U H *	0.10	0.035	mg/L			10/22/15 12:27	1
Sulfate	**74**		1.0	0.13	mg/L			10/22/15 12:27	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/22/15 08:03	10/22/15 10:44	1
Total Organic Carbon	**1.8**		1.0	0.080	mg/L			10/26/15 09:41	1

Client Sample ID: GW-101915-TP-036
Date Collected: 10/19/15 13:33
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**440**		5.0	1.9	mg/L			10/26/15 23:50	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/26/15 23:50	1
Hardness as calcium carbonate	**510**		25	16	mg/L			10/23/15 10:49	1
Chloride	**28**		1.0	0.41	mg/L			10/24/15 08:05	1
Nitrite as N	0.10	U H	0.10	0.038	mg/L			10/22/15 12:46	1
Nitrate as N	0.10	U H *	0.10	0.035	mg/L			10/22/15 12:46	1
Sulfate	**120**		1.0	0.13	mg/L			10/22/15 12:46	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/22/15 08:03	10/22/15 10:44	1
Total Organic Carbon	**2.7**		1.0	0.080	mg/L			10/26/15 10:04	1

Client Sample ID: GW-101915-TP-037
Date Collected: 10/19/15 14:34
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**430**		5.0	1.9	mg/L			10/27/15 00:05	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/27/15 00:05	1
Hardness as calcium carbonate	**490**		25	16	mg/L			10/23/15 10:52	1
Chloride	**25**		1.0	0.41	mg/L			10/24/15 09:45	1
Nitrite as N	0.10	U H	0.10	0.038	mg/L			10/22/15 13:04	1
Nitrate as N	0.10	U H *	0.10	0.035	mg/L			10/22/15 13:04	1
Sulfate	**76**		1.0	0.13	mg/L			10/22/15 13:04	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/22/15 08:03	10/22/15 10:44	1

General Chemistry (Continued)

Client Sample ID: GW-101915-TP-037
Date Collected: 10/19/15 14:34
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2.7**		1.0	0.080	mg/L			10/26/15 10:27	1

Client Sample ID: GW-102015-TP-042
Date Collected: 10/20/15 10:27
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**440**		5.0	1.9	mg/L			10/26/15 19:52	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/26/15 19:52	1
Hardness as calcium carbonate	**510**		25	16	mg/L			10/23/15 11:07	1
Chloride	**43**		1.0	0.41	mg/L			10/24/15 10:05	1
Nitrite as N	0.10	U H	0.10	0.038	mg/L			10/24/15 10:05	1
Nitrate as N	0.10	U H	0.10	0.035	mg/L			10/24/15 10:05	1
Sulfate	**110**	**F1**	1.0	0.13	mg/L			10/22/15 14:18	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/22/15 08:03	10/22/15 10:44	1
Total Organic Carbon	**2.3**		1.0	0.080	mg/L			10/26/15 10:50	1

Client Sample ID: GW-102015-TP-043
Date Collected: 10/20/15 10:35
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**440**		5.0	1.9	mg/L			10/26/15 20:07	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/26/15 20:07	1
Hardness as calcium carbonate	**510**		25	16	mg/L			10/23/15 11:10	1
Chloride	**42**		1.0	0.41	mg/L			10/24/15 10:25	1
Nitrite as N	0.10	U H	0.10	0.038	mg/L			10/22/15 13:22	1
Nitrate as N	0.10	U H *	0.10	0.035	mg/L			10/22/15 13:22	1
Sulfate	**110**		1.0	0.13	mg/L			10/22/15 13:22	1
Sulfide	3.0	U	3.0	0.94	mg/L		10/22/15 08:03	10/22/15 10:44	1
Total Organic Carbon	**2.2**		1.0	0.080	mg/L			10/26/15 11:25	1

General Chemistry - Dissolved

Client Sample ID: GW-101915-TP-034
Date Collected: 10/19/15 11:12
Date Received: 10/21/15 16:19
Lab Sample ID: 240-56881-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.0		1.0	0.080	mg/L			10/29/15 11:47	1

Client Sample ID: GW-101915-TP-035
Date Collected: 10/19/15 12:24
Date Received: 10/21/15 16:19
Lab Sample ID: 240-56881-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.8		1.0	0.080	mg/L			10/29/15 12:24	1

Client Sample ID: GW-101915-TP-036
Date Collected: 10/19/15 13:33
Date Received: 10/21/15 16:19
Lab Sample ID: 240-56881-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.4		1.0	0.080	mg/L			10/29/15 12:47	1

Client Sample ID: GW-101915-TP-037
Date Collected: 10/19/15 14:34
Date Received: 10/21/15 16:19
Lab Sample ID: 240-56881-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.4		1.0	0.080	mg/L			10/29/15 13:10	1

Client Sample ID: GW-102015-TP-042
Date Collected: 10/20/15 10:27
Date Received: 10/21/15 16:19
Lab Sample ID: 240-56881-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.7		1.0	0.080	mg/L			10/29/15 13:33	1

Client Sample ID: GW-102015-TP-043
Date Collected: 10/20/15 10:35
Date Received: 10/21/15 16:19
Lab Sample ID: 240-56881-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.8		1.0	0.080	mg/L			10/29/15 14:07	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-1

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	rifluoroet (66-132)								
240-56881-1	GW-101915-TP-034	81								
240-56881-1 MS	GW-101915-TP-034	77								
240-56881-1 MSD	GW-101915-TP-034	79								
240-56881-2	GW-101915-TP-035	83								
240-56881-3	GW-101915-TP-036	80								
240-56881-4	GW-101915-TP-037	79								
240-56881-10	GW-102015-TP-042	79								
240-56881-11	GW-102015-TP-043	81								
LCS 240-204043/5	Lab Control Sample	103								
MB 240-204043/4	Method Blank	101								

Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-204043/4
Matrix: Water
Analysis Batch: 204043

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.50	U	0.50	0.080	ug/L			10/28/15 11:49	1
Ethane	0.50	U	0.50	0.14	ug/L			10/28/15 11:49	1
Ethylene	0.50	U	0.50	0.13	ug/L			10/28/15 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*101*		*66 - 132*		*10/28/15 11:49*	*1*

Lab Sample ID: LCS 240-204043/5
Matrix: Water
Analysis Batch: 204043

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	199	215		ug/L		108	76 - 120
Ethane	374	380		ug/L		102	80 - 120
Ethylene	349	371		ug/L		106	81 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*103*		*66 - 132*

Lab Sample ID: 240-56881-1 MS
Matrix: Water
Analysis Batch: 204043

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	22		199	218		ug/L		99	34 - 153
Ethane	2.0		374	310		ug/L		82	61 - 120
Ethylene	31		349	314		ug/L		81	60 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*77*		*66 - 132*

Lab Sample ID: 240-56881-1 MSD
Matrix: Water
Analysis Batch: 204043

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	22		199	219		ug/L		99	34 - 153	0	22
Ethane	2.0		374	322		ug/L		86	61 - 120	4	21
Ethylene	31		349	325		ug/L		84	60 - 120	3	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,1,1-Trifluoroethane	*79*		*66 - 132*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-203130/1-A
Matrix: Water
Analysis Batch: 203385

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 203130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	0.46	ug/L		10/22/15 10:45	10/23/15 11:18	1

Lab Sample ID: LCS 240-203130/2-A
Matrix: Water
Analysis Batch: 203385

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 203130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	514		ug/L		103	80 - 120

Lab Sample ID: 240-56881-1 MS
Matrix: Water
Analysis Batch: 203385

Client Sample ID: GW-101915-TP-034
Prep Type: Dissolved
Prep Batch: 203130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	140		500	654		ug/L		103	75 - 125

Lab Sample ID: 240-56881-1 MSD
Matrix: Water
Analysis Batch: 203385

Client Sample ID: GW-101915-TP-034
Prep Type: Dissolved
Prep Batch: 203130

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	140		500	655		ug/L		104	75 - 125	0	20

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-203811/36
Matrix: Water
Analysis Batch: 203811

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			10/26/15 19:38	1
Carbonate Alkalinity as CaCO3	2.56	J	5.0	1.9	mg/L			10/26/15 19:38	1

Lab Sample ID: MB 240-203811/5
Matrix: Water
Analysis Batch: 203811

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	2.50	J	5.0	1.9	mg/L			10/26/15 12:37	1
Carbonate Alkalinity as CaCO3	2.12	J	5.0	1.9	mg/L			10/26/15 12:37	1

Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-203358/4
Matrix: Water
Analysis Batch: 203358

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	5.0	U	5.0	3.1	mg/L			10/23/15 10:09	1

Lab Sample ID: LCS 240-203358/5
Matrix: Water
Analysis Batch: 203358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hardness as calcium carbonate			170	166		mg/L		98	88 - 110		

Lab Sample ID: 240-56881-1 MS
Matrix: Water
Analysis Batch: 203358

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hardness as calcium carbonate	430		1000	1420		mg/L		99	87 - 114		

Lab Sample ID: 240-56881-1 MSD
Matrix: Water
Analysis Batch: 203358

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hardness as calcium carbonate	430		1000	1430		mg/L		100	87 - 114	1	20

Lab Sample ID: 240-56881-1 DU
Matrix: Water
Analysis Batch: 203358

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hardness as calcium carbonate	430		428		mg/L		0.9	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-203107/4
Matrix: Water
Analysis Batch: 203107

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.13	mg/L			10/22/15 10:55	1

Lab Sample ID: LCS 240-203107/5
Matrix: Water
Analysis Batch: 203107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			50.0	52.8		mg/L		106	90 - 110		

Lab Sample ID: 240-56881-1 MS
Matrix: Water
Analysis Batch: 203107

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	77	F1	50.0	145	F1	mg/L		135	80 - 120		

Lab Sample ID: 240-56881-1 MSD
Matrix: Water
Analysis Batch: 203107

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	77	F1	50.0	144	F1	mg/L		134	80 - 120	0	20

Lab Sample ID: 240-56881-10 MS
Matrix: Water
Analysis Batch: 203107

Client Sample ID: GW-102015-TP-042
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	110	F1	50.0	172	F1	mg/L		127	80 - 120		

Lab Sample ID: 240-56881-10 MSD
Matrix: Water
Analysis Batch: 203107

Client Sample ID: GW-102015-TP-042
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	110	F1	50.0	171	F1	mg/L		125	80 - 120	1	20

Lab Sample ID: MB 240-203108/4
Matrix: Water
Analysis Batch: 203108

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/22/15 10:55	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			10/22/15 10:55	1

Lab Sample ID: LCS 240-203108/5
Matrix: Water
Analysis Batch: 203108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.59		mg/L		104	90 - 110
Nitrate as N	2.50	2.78	*	mg/L		111	90 - 110

Lab Sample ID: 240-56881-1 MS
Matrix: Water
Analysis Batch: 203108

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrite as N	0.10	U H F1	2.50	3.35	H F1	mg/L		134	80 - 120		
Nitrate as N	0.10	U H *	2.50	2.90	H	mg/L		116	80 - 120		

Lab Sample ID: 240-56881-1 MSD
Matrix: Water
Analysis Batch: 203108

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.10	U H F1	2.50	3.37	H F1	mg/L		135	80 - 120	1	20
Nitrate as N	0.10	U H *	2.50	2.87	H	mg/L		115	80 - 120	1	20

Lab Sample ID: MB 240-203440/27
Matrix: Water
Analysis Batch: 203440

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			10/24/15 01:05	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-203440/51
Matrix: Water
Analysis Batch: 203440

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			10/24/15 09:05	1

Lab Sample ID: LCS 240-203440/28
Matrix: Water
Analysis Batch: 203440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	46.3		mg/L		93	90 - 110

Lab Sample ID: LCS 240-203440/52
Matrix: Water
Analysis Batch: 203440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	46.1		mg/L		92	90 - 110

Lab Sample ID: 240-56881-1 MS
Matrix: Water
Analysis Batch: 203440

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	62		50.0	106		mg/L		87	80 - 120

Lab Sample ID: 240-56881-1 MSD
Matrix: Water
Analysis Batch: 203440

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	62		50.0	107		mg/L		90	80 - 120	1	20

Lab Sample ID: MB 240-203441/51
Matrix: Water
Analysis Batch: 203441

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.038	mg/L			10/24/15 09:05	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			10/24/15 09:05	1

Lab Sample ID: LCS 240-203441/52
Matrix: Water
Analysis Batch: 203441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.31		mg/L		92	90 - 110
Nitrate as N	2.50	2.37		mg/L		95	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-203693/27
Matrix: Water
Analysis Batch: 203693

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			10/26/15 20:30	1
Sulfate	1.0	U	1.0	0.13	mg/L			10/26/15 20:30	1

Lab Sample ID: LCS 240-203693/28
Matrix: Water
Analysis Batch: 203693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.2		mg/L		96	90 - 110
Sulfate	50.0	48.0		mg/L		96	90 - 110

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-203070/1-A
Matrix: Water
Analysis Batch: 203128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	0.94	mg/L		10/22/15 08:03	10/22/15 10:44	1

Lab Sample ID: LCS 240-203070/2-A
Matrix: Water
Analysis Batch: 203128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	8.53	7.60		mg/L		89	70 - 130

Lab Sample ID: 240-56881-1 MS
Matrix: Water
Analysis Batch: 203128

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA
Prep Batch: 203070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	3.0	U	8.53	6.80		mg/L		80	27 - 124

Lab Sample ID: 240-56881-1 MSD
Matrix: Water
Analysis Batch: 203128

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA
Prep Batch: 203070

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	3.0	U	8.53	7.20		mg/L		84	27 - 124	6	20

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-203777/4
Matrix: Water
Analysis Batch: 203777

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.080	mg/L			10/26/15 08:46	1

Lab Sample ID: LCS 240-203777/6
Matrix: Water
Analysis Batch: 203777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	69.3	73.7		mg/L		106	88 - 115

Lab Sample ID: LLCS 240-203777/5
Matrix: Water
Analysis Batch: 203777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	6.93	6.78		mg/L		98	88 - 115

Lab Sample ID: 240-56881-1 MS
Matrix: Water
Analysis Batch: 203777

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.8		25.0	27.0		mg/L		100	72 - 136

Lab Sample ID: 240-56881-1 MSD
Matrix: Water
Analysis Batch: 203777

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.8		25.0	28.8		mg/L		108	72 - 136	7	20

Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-204439/4
Matrix: Water
Analysis Batch: 204439

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.0	U	1.0	0.080	mg/L			10/29/15 11:29	1

Lab Sample ID: LCS 240-204439/6
Matrix: Water
Analysis Batch: 204439

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	69.3	71.7		mg/L		103	88 - 115

Lab Sample ID: LLCS 240-204439/5
Matrix: Water
Analysis Batch: 204439

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	6.93	6.46		mg/L		93	88 - 115

Lab Sample ID: 240-56881-1 MS
Matrix: Water
Analysis Batch: 204439

Client Sample ID: GW-101915-TP-034
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	2.0		25.0	26.0		mg/L		96	72 - 136

QC Sample Results

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-1

Lab Sample ID: 240-56881-1 MSD
Matrix: Water
Analysis Batch: 204439

Client Sample ID: GW-101915-TP-034
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Organic Carbon	2.0		25.0	27.8		mg/L		103	72 - 136	7	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-1

GC VOA

Analysis Batch: 204043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-1	GW-101915-TP-034	Total/NA	Water	RSK-175	
240-56881-1 MS	GW-101915-TP-034	Total/NA	Water	RSK-175	
240-56881-1 MSD	GW-101915-TP-034	Total/NA	Water	RSK-175	
240-56881-2	GW-101915-TP-035	Total/NA	Water	RSK-175	
240-56881-3	GW-101915-TP-036	Total/NA	Water	RSK-175	
240-56881-4	GW-101915-TP-037	Total/NA	Water	RSK-175	
240-56881-10	GW-102015-TP-042	Total/NA	Water	RSK-175	
240-56881-11	GW-102015-TP-043	Total/NA	Water	RSK-175	
LCS 240-204043/5	Lab Control Sample	Total/NA	Water	RSK-175	
MB 240-204043/4	Method Blank	Total/NA	Water	RSK-175	

Metals

Prep Batch: 203130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-1	GW-101915-TP-034	Dissolved	Water	3005A	
240-56881-1 MS	GW-101915-TP-034	Dissolved	Water	3005A	
240-56881-1 MSD	GW-101915-TP-034	Dissolved	Water	3005A	
240-56881-2	GW-101915-TP-035	Dissolved	Water	3005A	
240-56881-3	GW-101915-TP-036	Dissolved	Water	3005A	
240-56881-4	GW-101915-TP-037	Dissolved	Water	3005A	
240-56881-10	GW-102015-TP-042	Dissolved	Water	3005A	
240-56881-11	GW-102015-TP-043	Dissolved	Water	3005A	
LCS 240-203130/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-203130/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 203385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-1	GW-101915-TP-034	Dissolved	Water	6010B	203130
240-56881-1 MS	GW-101915-TP-034	Dissolved	Water	6010B	203130
240-56881-1 MSD	GW-101915-TP-034	Dissolved	Water	6010B	203130
240-56881-2	GW-101915-TP-035	Dissolved	Water	6010B	203130
240-56881-3	GW-101915-TP-036	Dissolved	Water	6010B	203130
240-56881-4	GW-101915-TP-037	Dissolved	Water	6010B	203130
240-56881-10	GW-102015-TP-042	Dissolved	Water	6010B	203130
240-56881-11	GW-102015-TP-043	Dissolved	Water	6010B	203130
LCS 240-203130/2-A	Lab Control Sample	Total Recoverable	Water	6010B	203130
MB 240-203130/1-A	Method Blank	Total Recoverable	Water	6010B	203130

General Chemistry

Prep Batch: 203070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-1	GW-101915-TP-034	Total/NA	Water	9030B	
240-56881-1 MS	GW-101915-TP-034	Total/NA	Water	9030B	
240-56881-1 MSD	GW-101915-TP-034	Total/NA	Water	9030B	
240-56881-2	GW-101915-TP-035	Total/NA	Water	9030B	
240-56881-3	GW-101915-TP-036	Total/NA	Water	9030B	
240-56881-4	GW-101915-TP-037	Total/NA	Water	9030B	
240-56881-10	GW-102015-TP-042	Total/NA	Water	9030B	

General Chemistry (Continued)

Prep Batch: 203070 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-11	GW-102015-TP-043	Total/NA	Water	9030B	
LCS 240-203070/2-A	Lab Control Sample	Total/NA	Water	9030B	
MB 240-203070/1-A	Method Blank	Total/NA	Water	9030B	

Analysis Batch: 203107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-1	GW-101915-TP-034	Total/NA	Water	300.0	
240-56881-1 MS	GW-101915-TP-034	Total/NA	Water	300.0	
240-56881-1 MSD	GW-101915-TP-034	Total/NA	Water	300.0	
240-56881-2	GW-101915-TP-035	Total/NA	Water	300.0	
240-56881-3	GW-101915-TP-036	Total/NA	Water	300.0	
240-56881-4	GW-101915-TP-037	Total/NA	Water	300.0	
240-56881-10	GW-102015-TP-042	Total/NA	Water	300.0	
240-56881-10 MS	GW-102015-TP-042	Total/NA	Water	300.0	
240-56881-10 MSD	GW-102015-TP-042	Total/NA	Water	300.0	
240-56881-11	GW-102015-TP-043	Total/NA	Water	300.0	
LCS 240-203107/5	Lab Control Sample	Total/NA	Water	300.0	
MB 240-203107/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 203108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-1	GW-101915-TP-034	Total/NA	Water	300.0	
240-56881-1 MS	GW-101915-TP-034	Total/NA	Water	300.0	
240-56881-1 MSD	GW-101915-TP-034	Total/NA	Water	300.0	
240-56881-2	GW-101915-TP-035	Total/NA	Water	300.0	
240-56881-3	GW-101915-TP-036	Total/NA	Water	300.0	
240-56881-4	GW-101915-TP-037	Total/NA	Water	300.0	
240-56881-11	GW-102015-TP-043	Total/NA	Water	300.0	
LCS 240-203108/5	Lab Control Sample	Total/NA	Water	300.0	
MB 240-203108/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 203128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-1	GW-101915-TP-034	Total/NA	Water	9034	203070
240-56881-1 MS	GW-101915-TP-034	Total/NA	Water	9034	203070
240-56881-1 MSD	GW-101915-TP-034	Total/NA	Water	9034	203070
240-56881-2	GW-101915-TP-035	Total/NA	Water	9034	203070
240-56881-3	GW-101915-TP-036	Total/NA	Water	9034	203070
240-56881-4	GW-101915-TP-037	Total/NA	Water	9034	203070
240-56881-10	GW-102015-TP-042	Total/NA	Water	9034	203070
240-56881-11	GW-102015-TP-043	Total/NA	Water	9034	203070
LCS 240-203070/2-A	Lab Control Sample	Total/NA	Water	9034	203070
MB 240-203070/1-A	Method Blank	Total/NA	Water	9034	203070

Analysis Batch: 203358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-1	GW-101915-TP-034	Total/NA	Water	2340C-1997	
240-56881-1 DU	GW-101915-TP-034	Total/NA	Water	2340C-1997	
240-56881-1 MS	GW-101915-TP-034	Total/NA	Water	2340C-1997	
240-56881-1 MSD	GW-101915-TP-034	Total/NA	Water	2340C-1997	
240-56881-2	GW-101915-TP-035	Total/NA	Water	2340C-1997	

General Chemistry (Continued)

Analysis Batch: 203358 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-3	GW-101915-TP-036	Total/NA	Water	2340C-1997	
240-56881-4	GW-101915-TP-037	Total/NA	Water	2340C-1997	
240-56881-10	GW-102015-TP-042	Total/NA	Water	2340C-1997	
240-56881-11	GW-102015-TP-043	Total/NA	Water	2340C-1997	
LCS 240-203358/5	Lab Control Sample	Total/NA	Water	2340C-1997	
MB 240-203358/4	Method Blank	Total/NA	Water	2340C-1997	

Analysis Batch: 203440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-1	GW-101915-TP-034	Total/NA	Water	300.0	
240-56881-1 MS	GW-101915-TP-034	Total/NA	Water	300.0	
240-56881-1 MSD	GW-101915-TP-034	Total/NA	Water	300.0	
240-56881-2	GW-101915-TP-035	Total/NA	Water	300.0	
240-56881-3	GW-101915-TP-036	Total/NA	Water	300.0	
240-56881-4	GW-101915-TP-037	Total/NA	Water	300.0	
240-56881-10	GW-102015-TP-042	Total/NA	Water	300.0	
240-56881-11	GW-102015-TP-043	Total/NA	Water	300.0	
LCS 240-203440/28	Lab Control Sample	Total/NA	Water	300.0	
LCS 240-203440/52	Lab Control Sample	Total/NA	Water	300.0	
MB 240-203440/27	Method Blank	Total/NA	Water	300.0	
MB 240-203440/51	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 203441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-10	GW-102015-TP-042	Total/NA	Water	300.0	
LCS 240-203441/52	Lab Control Sample	Total/NA	Water	300.0	
MB 240-203441/51	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 203693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-203693/28	Lab Control Sample	Total/NA	Water	300.0	
MB 240-203693/27	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 203777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-1	GW-101915-TP-034	Total/NA	Water	9060	
240-56881-1 MS	GW-101915-TP-034	Total/NA	Water	9060	
240-56881-1 MSD	GW-101915-TP-034	Total/NA	Water	9060	
240-56881-2	GW-101915-TP-035	Total/NA	Water	9060	
240-56881-3	GW-101915-TP-036	Total/NA	Water	9060	
240-56881-4	GW-101915-TP-037	Total/NA	Water	9060	
240-56881-10	GW-102015-TP-042	Total/NA	Water	9060	
240-56881-11	GW-102015-TP-043	Total/NA	Water	9060	
LCS 240-203777/6	Lab Control Sample	Total/NA	Water	9060	
LLCS 240-203777/5	Lab Control Sample	Total/NA	Water	9060	
MB 240-203777/4	Method Blank	Total/NA	Water	9060	

Analysis Batch: 203811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-1	GW-101915-TP-034	Total/NA	Water	2320B-1997	
240-56881-2	GW-101915-TP-035	Total/NA	Water	2320B-1997	

General Chemistry (Continued)

Analysis Batch: 203811 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-3	GW-101915-TP-036	Total/NA	Water	2320B-1997	
240-56881-4	GW-101915-TP-037	Total/NA	Water	2320B-1997	
240-56881-10	GW-102015-TP-042	Total/NA	Water	2320B-1997	
240-56881-11	GW-102015-TP-043	Total/NA	Water	2320B-1997	
MB 240-203811/36	Method Blank	Total/NA	Water	2320B-1997	
MB 240-203811/5	Method Blank	Total/NA	Water	2320B-1997	

Analysis Batch: 204439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-1	GW-101915-TP-034	Dissolved	Water	9060	
240-56881-1 MS	GW-101915-TP-034	Dissolved	Water	9060	
240-56881-1 MSD	GW-101915-TP-034	Dissolved	Water	9060	
240-56881-2	GW-101915-TP-035	Dissolved	Water	9060	
240-56881-3	GW-101915-TP-036	Dissolved	Water	9060	
240-56881-4	GW-101915-TP-037	Dissolved	Water	9060	
240-56881-10	GW-102015-TP-042	Dissolved	Water	9060	
240-56881-11	GW-102015-TP-043	Dissolved	Water	9060	
LCS 240-204439/6	Lab Control Sample	Dissolved	Water	9060	
LLCS 240-204439/5	Lab Control Sample	Dissolved	Water	9060	
MB 240-204439/4	Method Blank	Dissolved	Water	9060	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-1

Client Sample ID: GW-101915-TP-034

Lab Sample ID: 240-56881-1

Date Collected: 10/19/15 11:12

Matrix: Water

Date Received: 10/21/15 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	204043	10/28/15 15:12	BPM	TAL CAN
Dissolved	Prep	3005A			203130	10/22/15 10:45	WKD	TAL CAN
Dissolved	Analysis	6010B		1	203385	10/23/15 15:17	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	203811	10/26/15 22:45	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	203358	10/23/15 10:58	TPH	TAL CAN
Total/NA	Analysis	300.0		1	203107	10/22/15 11:32	LCN	TAL CAN
Total/NA	Analysis	300.0		1	203108	10/22/15 11:32	LCN	TAL CAN
Total/NA	Analysis	300.0		1	203440	10/24/15 06:45	LKG	TAL CAN
Total/NA	Prep	9030B			203070	10/22/15 08:03	BLW	TAL CAN
Total/NA	Analysis	9034		1	203128	10/22/15 10:44	BLW	TAL CAN
Dissolved	Analysis	9060		1	204439	10/29/15 11:47	TPH	TAL CAN
Total/NA	Analysis	9060		1	203777	10/26/15 09:05	TPH	TAL CAN

Client Sample ID: GW-101915-TP-035

Lab Sample ID: 240-56881-2

Date Collected: 10/19/15 12:24

Matrix: Water

Date Received: 10/21/15 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	204043	10/28/15 15:59	BPM	TAL CAN
Dissolved	Prep	3005A			203130	10/22/15 10:45	WKD	TAL CAN
Dissolved	Analysis	6010B		1	203385	10/23/15 15:48	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	203811	10/26/15 23:36	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	203358	10/23/15 10:45	TPH	TAL CAN
Total/NA	Analysis	300.0		1	203107	10/22/15 12:27	LCN	TAL CAN
Total/NA	Analysis	300.0		1	203108	10/22/15 12:27	LCN	TAL CAN
Total/NA	Analysis	300.0		1	203440	10/24/15 07:45	LKG	TAL CAN
Total/NA	Prep	9030B			203070	10/22/15 08:03	BLW	TAL CAN
Total/NA	Analysis	9034		1	203128	10/22/15 10:44	BLW	TAL CAN
Dissolved	Analysis	9060		1	204439	10/29/15 12:24	TPH	TAL CAN
Total/NA	Analysis	9060		1	203777	10/26/15 09:41	TPH	TAL CAN

Client Sample ID: GW-101915-TP-036

Lab Sample ID: 240-56881-3

Date Collected: 10/19/15 13:33

Matrix: Water

Date Received: 10/21/15 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	204043	10/28/15 16:15	BPM	TAL CAN
Dissolved	Prep	3005A			203130	10/22/15 10:45	WKD	TAL CAN
Dissolved	Analysis	6010B		1	203385	10/23/15 15:52	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	203811	10/26/15 23:50	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	203358	10/23/15 10:49	TPH	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-1

Client Sample ID: GW-101915-TP-036

Lab Sample ID: 240-56881-3

Date Collected: 10/19/15 13:33
Matrix: Water
Date Received: 10/21/15 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	203107	10/22/15 12:46	LCN	TAL CAN
Total/NA	Analysis	300.0		1	203108	10/22/15 12:46	LCN	TAL CAN
Total/NA	Analysis	300.0		1	203440	10/24/15 08:05	LKG	TAL CAN
Total/NA	Prep	9030B			203070	10/22/15 08:03	BLW	TAL CAN
Total/NA	Analysis	9034		1	203128	10/22/15 10:44	BLW	TAL CAN
Dissolved	Analysis	9060		1	204439	10/29/15 12:47	TPH	TAL CAN
Total/NA	Analysis	9060		1	203777	10/26/15 10:04	TPH	TAL CAN

Client Sample ID: GW-101915-TP-037

Lab Sample ID: 240-56881-4

Date Collected: 10/19/15 14:34
Matrix: Water
Date Received: 10/21/15 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	204043	10/28/15 16:31	BPM	TAL CAN
Dissolved	Prep	3005A			203130	10/22/15 10:45	WKD	TAL CAN
Dissolved	Analysis	6010B		1	203385	10/23/15 16:01	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	203811	10/27/15 00:05	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	203358	10/23/15 10:52	TPH	TAL CAN
Total/NA	Analysis	300.0		1	203107	10/22/15 13:04	LCN	TAL CAN
Total/NA	Analysis	300.0		1	203108	10/22/15 13:04	LCN	TAL CAN
Total/NA	Analysis	300.0		1	203440	10/24/15 09:45	LKG	TAL CAN
Total/NA	Prep	9030B			203070	10/22/15 08:03	BLW	TAL CAN
Total/NA	Analysis	9034		1	203128	10/22/15 10:44	BLW	TAL CAN
Dissolved	Analysis	9060		1	204439	10/29/15 13:10	TPH	TAL CAN
Total/NA	Analysis	9060		1	203777	10/26/15 10:27	TPH	TAL CAN

Client Sample ID: GW-102015-TP-042

Lab Sample ID: 240-56881-10

Date Collected: 10/20/15 10:27
Matrix: Water
Date Received: 10/21/15 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	204043	10/28/15 16:47	BPM	TAL CAN
Dissolved	Prep	3005A			203130	10/22/15 10:45	WKD	TAL CAN
Dissolved	Analysis	6010B		1	203385	10/23/15 16:05	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	203811	10/26/15 19:52	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	203358	10/23/15 11:07	TPH	TAL CAN
Total/NA	Analysis	300.0		1	203107	10/22/15 14:18	LCN	TAL CAN
Total/NA	Analysis	300.0		1	203440	10/24/15 10:05	LKG	TAL CAN
Total/NA	Analysis	300.0		1	203441	10/24/15 10:05	LKG	TAL CAN
Total/NA	Prep	9030B			203070	10/22/15 08:03	BLW	TAL CAN
Total/NA	Analysis	9034		1	203128	10/22/15 10:44	BLW	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-1

Client Sample ID: GW-102015-TP-042

Lab Sample ID: 240-56881-10

Date Collected: 10/20/15 10:27

Matrix: Water

Date Received: 10/21/15 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	9060		1	204439	10/29/15 13:33	TPH	TAL CAN
Total/NA	Analysis	9060		1	203777	10/26/15 10:50	TPH	TAL CAN

Client Sample ID: GW-102015-TP-043

Lab Sample ID: 240-56881-11

Date Collected: 10/20/15 10:35

Matrix: Water

Date Received: 10/21/15 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	204043	10/28/15 17:02	BPM	TAL CAN
Dissolved	Prep	3005A			203130	10/22/15 10:45	WKD	TAL CAN
Dissolved	Analysis	6010B		1	203385	10/23/15 15:57	KLC	TAL CAN
Total/NA	Analysis	2320B-1997		1	203811	10/26/15 20:07	LKG	TAL CAN
Total/NA	Analysis	2340C-1997		1	203358	10/23/15 11:10	TPH	TAL CAN
Total/NA	Analysis	300.0		1	203107	10/22/15 13:22	LCN	TAL CAN
Total/NA	Analysis	300.0		1	203108	10/22/15 13:22	LCN	TAL CAN
Total/NA	Analysis	300.0		1	203440	10/24/15 10:25	LKG	TAL CAN
Total/NA	Prep	9030B			203070	10/22/15 08:03	BLW	TAL CAN
Total/NA	Analysis	9034		1	203128	10/22/15 10:44	BLW	TAL CAN
Dissolved	Analysis	9060		1	204439	10/29/15 14:07	TPH	TAL CAN
Total/NA	Analysis	9060		1	203777	10/26/15 11:25	TPH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-1

Laboratory: TestAmerica Canton

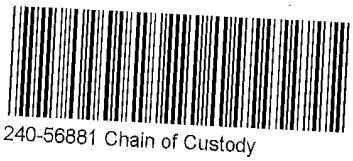
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	10-30-15 *
New York	NELAP	2	10975	03-31-16
Ohio VAP	State Program	5	CL0024	10-31-15 *
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



5.01C4.5

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 03942
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302/T07/CRA15	Laboratory Name: Test America	Lab Location: North Canton, OH	SSOW ID: 017302-T07
Project Name: RACER MCK	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1 of 2
Project Location: Anderson, IN			Carrier: FedEx
Chemistry Contact: Deb Andrasko			Airbill No: 6443 7561 2848
Sampler(s): Tim Pranger			Date Shipped: 10/19/15

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC	DRO, GRO	TOC	ODC *	MS/MSD Request	Comments/ Special Instructions:
1	GW-101915-TP-034	10/19/15	11:12	WG	G		15		8					23	X	X	X	X		MS/MSD
2	GW-101915-TP-035		12:24				6		4					10	X	X	X	X		
3	GW-101915-TP-036		13:33				6		4					10	X	X	X	X		
4	GW-101915-TP-037		14:34				6		4					10	X	X	X	X		
5	GW-101915-TP-028		15:27	WG			6		4					10	X	X	X	X		
6	TB-101915-TP-005	10/19/15	15:45	WQ	G		1							1	X					* Field Filtered
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 64
All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	GHD	10/19/15	16:30	1.	TA Can	10/20/15	1030
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

Chain of Custody Record

261(2.1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Ms. Deborah Andrasko	Phone: 317-291-7025	Heckler, Denise D E-Mail: denise.heckler@testamericainc.com	FedEx 6443756128 9	240-30551-13405.5 Page: Page 5 of 9
Company: GHD Services Inc.				Job #: 017302-TOT-CRA15
Address: 2055 Niagara Falls Blvd., Suite 3	Due Date Requested:			
City: Niagara Falls	TAT Requested (days): 2 week (STD)			
State, Zip: NY, 14304				
Phone:	PO #: Purchase Order Requested			
Email: deborah.andrasko@ghd.com	WO #: 17302			
Project Name: 17302, RACER Delphi Anderson	Project #: 24007143			
Site: RACER Anderson	SSOW#: 017302-TOT			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	9034_Calc - Sulfide	2320B - Alkalinity, Carb and Bicarb	2340C - Hardness as calcium carbonate	9060_Diss - DOC	RSK_175 - Dissolved Gases	9060 - TOC	300.0_28D - Chloride, Sulfate, Nitrate, Nitrite	6010B - Manganese--Diss, field filtered					Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	CB	N	D	S	A	S	N	D						
GW-101915-TP-034	10/19/15	11:12	G	Water	Y	Y		2	2	2				2	2					10	MS/MSD
GW-101915-TP-035		12:24		Water	Y	N		1	1	1				1	1					5	
GW-101915-TP-036		13:33		Water	Y	N		1	1	1				1	1					5	
GW-101915-TP-037		14:34		Water	Y	N		1	1	1				1	1					5	
GW-101915-TP-038	10/19/15	15:27	G	Water	Y	N		1	1	1				1	1					5	
				Water																	
				Water																	R Field Filtered
				Water																	
				Water																	
				Water																	
				Water																	
				Water																30	Total

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FedEx	
Relinquished by:	Date/Time: 10/19/15 16:30	Company: GHD	Received by:	Date/Time: 10/20/15 1030 Company: TA Con
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

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10/30/2015

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Tim Prenger	Lab PM: Heckler, Denise D	Carrier Tracking No(s): Fed Ex 644378612837	COC No: 240-30551-13405.4
Client Contact: Ms. Deborah Andrasko	Phone:	E-Mail: denise.heckler@testamericainc.com		Page: Page 4 of 9
Company: GHD Services Inc.				Job #: 017302-T07-CRAIS
Address: 2055 Niagara Falls Blvd., Suite 3	Due Date Requested:			
City: Niagara Falls	TAT Requested (days): 2 week (STD)			
State, Zip: NY, 14304				
Phone:	PO #: Purchase Order Requested			
Email: deborah.andrasko@ghd.com	WO #: 17302			
Project Name: 17302, RACER Delphi Anderson	Project #: 24007143			
Site: RACER Anderson, IN	SSOW#: 017302-T07			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	9034_Calc - Sulfide	2320B - Alkalinity, Carb and Bicarb	2340C - Hardness as calcium carbonate	9060_Diss - DOC (*)	RSK_175 - Dissolved Gases	9060 - TOC	300.0_28D - Chloride, Sulfate, Nitrate, Nitrite	6010B - Manganese--Diss, field filtered (*)					Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	CB	N	D	S	A	S	N	D						
GW-102015-TP-039	10/20/15	9:17	G	Water		N	X													3	
SW-102015-TP-040	"	9:25	"	Water		N	X													3	
SW-102015-TP-041		9:30		Water		N	X													3	
GW-102015-TP-042		10:27		Water	Y	N	X	X	X	X	X	X	X	X	X					15	
GW-102015-TP-043		10:35		Water	Y	N	X	X	X	X	X	X	X	X	X					15	
TB-102015-TP-006	10/20/15	11:40	G	Water		N	X													1	
				Water																	
				Water																	*Field Filtered
				Water																	
				Water																	
				Water																(40)	Total

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/20/15/13:00	GHD		10/20/15 1030	TA Co
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Tim Doerges	Lab PM: Heckler, Denise D	Carrier Tracking No(s): FedEx 644375612837	COC No: 240-30551-13405.6
Client Contact: Ms. Deborah Andrasko	Phone:	E-Mail: denise.heckler@testamericainc.com		Page: Page 6 of 9
Company: GHD Services Inc.				Job #:
Address: 2055 Niagara Falls Blvd., Suite 3	Due Date Requested:			
City: Niagara Falls	TAT Requested (days): 2 week (STD) Have on Hold			
State, Zip: NY, 14304				
Phone:	PO #: Purchase Order Requested			
Email: deborah.andrasko@ghd.com	WO #: 17302			
Project Name: 17302, RACER Delphi Anderson	Project #: 24007143			
Site: RACER Anderson, IN	SSOW#: 017302-707			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	9034_Calc - Sulfide	2320B - Alkalinity, Carb and Bicarb	2340C - Hardness as calcium carbonate	9060_Diss - DOC	RSK_175 - Dissolved Gases	9060 - TOC	300.0_28D - Chloride, Sulfate, Nitrate, Nitrite	6010B - Manganese--Diss, field filtered				Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	CB	N	D	S	A	S	N	D					
WW-102015-TP-001	10/20/15	1120	G	Water			X												3	Hold
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10/20/15 / 13:00	GHD	[signature]	10/20/15 1830	TA Co
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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10/30/2015

TestAmerica Canton Sample Receipt Form/Narrative Login # : 56881
Canton Facility

Client GHD Site Name _____ Cooler unpacked by: Jerry Bennett

Cooler Received on 10/24/15 Opened on 10/24/15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other Multiple

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
   IR GUN# 53 (CF +**0.1** °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
   IR GUN# 48 (CF **-0.3** °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C ☒ See Multiple Cooler Form
   ~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C~~
   IR GUN# 8 (CF **-0.5** °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

2.	Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 each	Yes	No
	-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
	-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
3.	Shippers' packing slip attached to the cooler(s)?	Yes	No
4.	Did custody papers accompany the sample(s)?	Yes	No
5.	Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6.	Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7.	Did all bottles arrive in good condition (Unbroken)?	Yes	No
8.	Could all bottle labels be reconciled with the COC? TB	~~Yes~~	No
9.	Were correct bottle(s) used for the test(s) indicated?	Yes	No
10.	Sufficient quantity received to perform indicated analyses?	Yes	No
11.	Were sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# **HC554612**
12.	Were VOAs on the COC?	Yes	No
13.	Were air bubbles >6 mm in any VOA vials?	Yes	No NA
14.	Was a trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No

Contacted PM NAP Date 10/24/15 by JTB via Verbal Voice Mail Other

Concerning #14

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

GW-101915-TP-038 only req'd 8260 VOCs

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s):_____.

TestAmerica Multiple Cooler Receipt Form/Narrative **Login # :**_____
Canton Facility

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Indy	8	1.6	1.1	ICE
Pitt	1	2.6	2.1	1
Indy	1	5.0	4.5	1

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101915-TP-034	240-56881-AA-1	Plastic 250ml - with Nitric Acid	<2		
GW-101915-TP-034	240-56881-AD-1	Plastic 500ml - with Nitric Acid	<2		
GW-101915-TP-034	240-56881-AE-1	Plastic 500ml - with Nitric Acid	<2		
GW-101915-TP-034	240-56881-AF-1	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101915-TP-034	240-56881-AG-1	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101915-TP-034	240-56881-Z-1	Plastic 250ml - with Nitric Acid	<2		
GW-101915-TP-035	240-56881-L-2	Plastic 250ml - with Nitric Acid	<2		
GW-101915-TP-035	240-56881-N-2	Plastic 500ml - with Nitric Acid	<2		
GW-101915-TP-035	240-56881-O-2	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101915-TP-036	240-56881-L-3	Plastic 250ml - with Nitric Acid	<2		
GW-101915-TP-036	240-56881-N-3	Plastic 500ml - with Nitric Acid	<2		
GW-101915-TP-036	240-56881-O-3	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101915-TP-037	240-56881-L-4	Plastic 250ml - with Nitric Acid	<2		
GW-101915-TP-037	240-56881-N-4	Plastic 500ml - with Nitric Acid	<2		
GW-101915-TP-037	240-56881-O-4	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-102015-TP-042	240-56881-L-10	Plastic 250ml - with Nitric Acid	<2		
GW-102015-TP-042	240-56881-N-10	Plastic 500ml - with Nitric Acid	<2		
GW-102015-TP-042	240-56881-O-10	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-102015-TP-043	240-56881-L-11	Plastic 250ml - with Nitric Acid	<2		
GW-102015-TP-043	240-56881-N-11	Plastic 500ml - with Nitric Acid	<2		
GW-102015-TP-043	240-56881-O-11	Plastic 1 liter - Zn Acetate and NaO	>9		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-56881-3
Client Project/Site: 17302-T07, RACER Delphi Anderson

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko

Denise D Heckler

Authorized for release by:
10/30/2015 1:35:29 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-3

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-56881-3

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 17302-T07, RACER Delphi Anderson

Report Number: 240-56881-3

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 10/21/2015; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.1º C, 2.1º C and 4.5º C.

Sample GW-101915-TP-038 should only be run for VOC's only. COC was improperly filled out for that sample. A revised COC was not provided.

Sample WW-102015-TP-001 can be found in job series 2: 240-56881-2.

TB-005 was cancelled; one vial received and the analyst broke it.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GW-101915-TP-034 (240-56881-1), GW-101915-TP-035 (240-56881-2), GW-101915-TP-036 (240-56881-3), GW-101915-TP-037 (240-56881-4), GW-101915-TP-038 (240-56881-5), GW-102015-TP-039 (240-56881-7), SW-102015-TP-040 (240-56881-8), SW-102015-TP-041 (240-56881-9), GW-102015-TP-042 (240-56881-10), GW-102015-TP-043 (240-56881-11) and TB-102015-TP-006 (240-56881-12) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/28/2015.

Job ID: 240-56881-3 (Continued)

Laboratory: TestAmerica Canton (Continued)

Samples GW-101915-TP-034 (240-56881-1)[333.33X], GW-101915-TP-035 (240-56881-2)[333.33X], SW-102015-TP-041 (240-56881-9)[1.43X], GW-102015-TP-042 (240-56881-10)[5.71X] and GW-102015-TP-043 (240-56881-11)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-3

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-56881-1	GW-101915-TP-034	Water	10/19/15 11:12	10/21/15 16:19
240-56881-2	GW-101915-TP-035	Water	10/19/15 12:24	10/21/15 16:19
240-56881-3	GW-101915-TP-036	Water	10/19/15 13:33	10/21/15 16:19
240-56881-4	GW-101915-TP-037	Water	10/19/15 14:34	10/21/15 16:19
240-56881-5	GW-101915-TP-038	Water	10/19/15 15:27	10/21/15 16:19
240-56881-7	GW-102015-TP-039	Water	10/20/15 09:17	10/21/15 16:19
240-56881-8	SW-102015-TP-040	Water	10/20/15 09:25	10/21/15 16:19
240-56881-9	SW-102015-TP-041	Water	10/20/15 09:30	10/21/15 16:19
240-56881-10	GW-102015-TP-042	Water	10/20/15 10:27	10/21/15 16:19
240-56881-11	GW-102015-TP-043	Water	10/20/15 10:35	10/21/15 16:19
240-56881-12	TB-102015-TP-006	Water	10/20/15 11:40	10/21/15 16:19

Detection Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-3

Client Sample ID: GW-101915-TP-034 — Lab Sample ID: 240-56881-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	470		330	100	ug/L	333.33		8260B	Total/NA
cis-1,2-Dichloroethene	12000		330	87	ug/L	333.33		8260B	Total/NA
trans-1,2-Dichloroethene	330		330	100	ug/L	333.33		8260B	Total/NA
Trichloroethene	1000		330	73	ug/L	333.33		8260B	Total/NA
Vinyl chloride	470		330	97	ug/L	333.33		8260B	Total/NA

Client Sample ID: GW-101915-TP-035 — Lab Sample ID: 240-56881-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	380		330	100	ug/L	333.33		8260B	Total/NA
cis-1,2-Dichloroethene	10000		330	87	ug/L	333.33		8260B	Total/NA
trans-1,2-Dichloroethene	220	J	330	100	ug/L	333.33		8260B	Total/NA
Vinyl chloride	440		330	97	ug/L	333.33		8260B	Total/NA

Client Sample ID: GW-101915-TP-036 — Lab Sample ID: 240-56881-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	3.7		1.0	0.29	ug/L	1		8260B	Total/NA

Client Sample ID: GW-101915-TP-037 — Lab Sample ID: 240-56881-4

No Detections.

Client Sample ID: GW-101915-TP-038 — Lab Sample ID: 240-56881-5

No Detections.

Client Sample ID: GW-102015-TP-039 — Lab Sample ID: 240-56881-7

No Detections.

Client Sample ID: SW-102015-TP-040 — Lab Sample ID: 240-56881-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.8		1.0	0.30	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	37		1.0	0.26	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.85	J	1.0	0.30	ug/L	1		8260B	Total/NA
Vinyl chloride	6.5		1.0	0.29	ug/L	1		8260B	Total/NA

Client Sample ID: SW-102015-TP-041 — Lab Sample ID: 240-56881-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.7		1.4	0.43	ug/L	1.43		8260B	Total/NA
cis-1,2-Dichloroethene	35		1.4	0.37	ug/L	1.43		8260B	Total/NA
trans-1,2-Dichloroethene	0.83	J	1.4	0.43	ug/L	1.43		8260B	Total/NA
Vinyl chloride	4.7		1.4	0.41	ug/L	1.43		8260B	Total/NA

Client Sample ID: GW-102015-TP-042 — Lab Sample ID: 240-56881-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	28		5.7	1.5	ug/L	5.71		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-102015-TP-042 (Continued) — Lab Sample ID: 240-56881-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	160		5.7	1.7	ug/L	5.71		8260B	Total/NA

Client Sample ID: GW-102015-TP-043 — Lab Sample ID: 240-56881-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	28		5.0	1.3	ug/L	5		8260B	Total/NA
Vinyl chloride	150		5.0	1.5	ug/L	5		8260B	Total/NA

Client Sample ID: TB-102015-TP-006 — Lab Sample ID: 240-56881-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	10	0.94	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	1.2	J	10	0.53	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: GW-101915-TP-034
Date Collected: 10/19/15 11:12
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	330	U	330	150	ug/L			10/28/15 14:41	333.33
1,1,2,2-Tetrachloroethane	330	U	330	73	ug/L			10/28/15 14:41	333.33
1,1,2-Trichloroethane	330	U	330	80	ug/L			10/28/15 14:41	333.33
1,1-Dichloroethane	**470**		330	100	ug/L			10/28/15 14:41	333.33
1,1-Dichloroethene	330	U	330	150	ug/L			10/28/15 14:41	333.33
1,2-Dichloroethane	330	U	330	77	ug/L			10/28/15 14:41	333.33
1,2-Dichloropropane	330	U	330	83	ug/L			10/28/15 14:41	333.33
2-Hexanone	3300	U	3300	160	ug/L			10/28/15 14:41	333.33
Acetone	3300	U	3300	310	ug/L			10/28/15 14:41	333.33
Benzene	330	U	330	120	ug/L			10/28/15 14:41	333.33
Bromoform	330	U	330	190	ug/L			10/28/15 14:41	333.33
Bromomethane	330	U	330	150	ug/L			10/28/15 14:41	333.33
Carbon disulfide	330	U	330	130	ug/L			10/28/15 14:41	333.33
Carbon tetrachloride	330	U	330	140	ug/L			10/28/15 14:41	333.33
Chlorobenzene	330	U	330	83	ug/L			10/28/15 14:41	333.33
Chloroethane	330	U	330	110	ug/L			10/28/15 14:41	333.33
Chloroform	330	U	330	83	ug/L			10/28/15 14:41	333.33
Chloromethane	330	U	330	150	ug/L			10/28/15 14:41	333.33
cis-1,2-Dichloroethene	**12000**		330	87	ug/L			10/28/15 14:41	333.33
cis-1,3-Dichloropropene	330	U	330	150	ug/L			10/28/15 14:41	333.33
Dichlorobromomethane	330	U	330	97	ug/L			10/28/15 14:41	333.33
Ethylbenzene	330	U	330	83	ug/L			10/28/15 14:41	333.33
2-Butanone (MEK)	3300	U	3300	180	ug/L			10/28/15 14:41	333.33
4-Methyl-2-pentanone (MIBK)	3300	U	3300	330	ug/L			10/28/15 14:41	333.33
Methylene Chloride	330	U	330	110	ug/L			10/28/15 14:41	333.33
Styrene	330	U	330	150	ug/L			10/28/15 14:41	333.33
Tetrachloroethene	330	U	330	100	ug/L			10/28/15 14:41	333.33
Toluene	330	U	330	77	ug/L			10/28/15 14:41	333.33
trans-1,2-Dichloroethene	**330**		330	100	ug/L			10/28/15 14:41	333.33
trans-1,3-Dichloropropene	330	U	330	190	ug/L			10/28/15 14:41	333.33
Trichloroethene	**1000**		330	73	ug/L			10/28/15 14:41	333.33
Vinyl chloride	**470**		330	97	ug/L			10/28/15 14:41	333.33
Xylenes, Total	670	U	670	170	ug/L			10/28/15 14:41	333.33
Chlorodibromomethane	330	U	330	140	ug/L			10/28/15 14:41	333.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*78 - 125*		*10/28/15 14:41*	*333.33*
4-Bromofluorobenzene (Surr)	*89*		*61 - 120*		*10/28/15 14:41*	*333.33*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/28/15 14:41*	*333.33*
Dibromofluoromethane (Surr)	*97*		*79 - 120*		*10/28/15 14:41*	*333.33*

Client Sample ID: GW-101915-TP-035
Date Collected: 10/19/15 12:24
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	330	U	330	150	ug/L			10/28/15 16:30	333.33
1,1,2,2-Tetrachloroethane	330	U	330	73	ug/L			10/28/15 16:30	333.33
1,1,2-Trichloroethane	330	U	330	80	ug/L			10/28/15 16:30	333.33
1,1-Dichloroethane	**380**		330	100	ug/L			10/28/15 16:30	333.33
1,1-Dichloroethene	330	U	330	150	ug/L			10/28/15 16:30	333.33

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101915-TP-035
Date Collected: 10/19/15 12:24
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	330	U	330	77	ug/L			10/28/15 16:30	333.33
1,2-Dichloropropane	330	U	330	83	ug/L			10/28/15 16:30	333.33
2-Hexanone	3300	U	3300	160	ug/L			10/28/15 16:30	333.33
Acetone	3300	U	3300	310	ug/L			10/28/15 16:30	333.33
Benzene	330	U	330	120	ug/L			10/28/15 16:30	333.33
Bromoform	330	U	330	190	ug/L			10/28/15 16:30	333.33
Bromomethane	330	U	330	150	ug/L			10/28/15 16:30	333.33
Carbon disulfide	330	U	330	130	ug/L			10/28/15 16:30	333.33
Carbon tetrachloride	330	U	330	140	ug/L			10/28/15 16:30	333.33
Chlorobenzene	330	U	330	83	ug/L			10/28/15 16:30	333.33
Chloroethane	330	U	330	110	ug/L			10/28/15 16:30	333.33
Chloroform	330	U	330	83	ug/L			10/28/15 16:30	333.33
Chloromethane	330	U	330	150	ug/L			10/28/15 16:30	333.33
cis-1,2-Dichloroethene	**10000**		330	87	ug/L			10/28/15 16:30	333.33
cis-1,3-Dichloropropene	330	U	330	150	ug/L			10/28/15 16:30	333.33
Dichlorobromomethane	330	U	330	97	ug/L			10/28/15 16:30	333.33
Ethylbenzene	330	U	330	83	ug/L			10/28/15 16:30	333.33
2-Butanone (MEK)	3300	U	3300	180	ug/L			10/28/15 16:30	333.33
4-Methyl-2-pentanone (MIBK)	3300	U	3300	330	ug/L			10/28/15 16:30	333.33
Methylene Chloride	330	U	330	110	ug/L			10/28/15 16:30	333.33
Styrene	330	U	330	150	ug/L			10/28/15 16:30	333.33
Tetrachloroethene	330	U	330	100	ug/L			10/28/15 16:30	333.33
Toluene	330	U	330	77	ug/L			10/28/15 16:30	333.33
trans-1,2-Dichloroethene	**220**	**J**	330	100	ug/L			10/28/15 16:30	333.33
trans-1,3-Dichloropropene	330	U	330	190	ug/L			10/28/15 16:30	333.33
Trichloroethene	330	U	330	73	ug/L			10/28/15 16:30	333.33
Vinyl chloride	**440**		330	97	ug/L			10/28/15 16:30	333.33
Xylenes, Total	670	U	670	170	ug/L			10/28/15 16:30	333.33
Chlorodibromomethane	330	U	330	140	ug/L			10/28/15 16:30	333.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*78 - 125*		*10/28/15 16:30*	*333.33*
4-Bromofluorobenzene (Surr)	*92*		*61 - 120*		*10/28/15 16:30*	*333.33*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/28/15 16:30*	*333.33*
Dibromofluoromethane (Surr)	*99*		*79 - 120*		*10/28/15 16:30*	*333.33*

Client Sample ID: GW-101915-TP-036
Date Collected: 10/19/15 13:33
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/28/15 20:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/28/15 20:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/28/15 20:53	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/28/15 20:53	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/28/15 20:53	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/28/15 20:53	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/28/15 20:53	1
2-Hexanone	10	U	10	0.48	ug/L			10/28/15 20:53	1
Acetone	10	U	10	0.94	ug/L			10/28/15 20:53	1
Benzene	1.0	U	1.0	0.35	ug/L			10/28/15 20:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101915-TP-036
Date Collected: 10/19/15 13:33
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	1.0	U	1.0	0.56	ug/L			10/28/15 20:53	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/28/15 20:53	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/28/15 20:53	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/28/15 20:53	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/28/15 20:53	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/28/15 20:53	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/28/15 20:53	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/28/15 20:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/28/15 20:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/28/15 20:53	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/28/15 20:53	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/28/15 20:53	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/28/15 20:53	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/28/15 20:53	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/28/15 20:53	1
Styrene	1.0	U	1.0	0.45	ug/L			10/28/15 20:53	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/28/15 20:53	1
Toluene	1.0	U	1.0	0.23	ug/L			10/28/15 20:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/28/15 20:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/28/15 20:53	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/28/15 20:53	1
Vinyl chloride	**3.7**		1.0	0.29	ug/L			10/28/15 20:53	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/28/15 20:53	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/28/15 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*78 - 125*		*10/28/15 20:53*	*1*
4-Bromofluorobenzene (Surr)	*89*		*61 - 120*		*10/28/15 20:53*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/28/15 20:53*	*1*
Dibromofluoromethane (Surr)	*100*		*79 - 120*		*10/28/15 20:53*	*1*

Client Sample ID: GW-101915-TP-037
Date Collected: 10/19/15 14:34
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/28/15 21:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/28/15 21:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/28/15 21:15	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/28/15 21:15	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/28/15 21:15	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/28/15 21:15	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/28/15 21:15	1
2-Hexanone	10	U	10	0.48	ug/L			10/28/15 21:15	1
Acetone	10	U	10	0.94	ug/L			10/28/15 21:15	1
Benzene	1.0	U	1.0	0.35	ug/L			10/28/15 21:15	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/28/15 21:15	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/28/15 21:15	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/28/15 21:15	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/28/15 21:15	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/28/15 21:15	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101915-TP-037
Date Collected: 10/19/15 14:34
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.32	ug/L			10/28/15 21:15	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/28/15 21:15	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/28/15 21:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/28/15 21:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/28/15 21:15	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/28/15 21:15	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/28/15 21:15	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/28/15 21:15	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/28/15 21:15	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/28/15 21:15	1
Styrene	1.0	U	1.0	0.45	ug/L			10/28/15 21:15	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/28/15 21:15	1
Toluene	1.0	U	1.0	0.23	ug/L			10/28/15 21:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/28/15 21:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/28/15 21:15	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/28/15 21:15	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/28/15 21:15	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/28/15 21:15	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/28/15 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*78 - 125*		*10/28/15 21:15*	*1*
4-Bromofluorobenzene (Surr)	*87*		*61 - 120*		*10/28/15 21:15*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/28/15 21:15*	*1*
Dibromofluoromethane (Surr)	*99*		*79 - 120*		*10/28/15 21:15*	*1*

Client Sample ID: GW-101915-TP-038
Date Collected: 10/19/15 15:27
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/28/15 21:37	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/28/15 21:37	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/28/15 21:37	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/28/15 21:37	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/28/15 21:37	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/28/15 21:37	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/28/15 21:37	1
2-Hexanone	10	U	10	0.48	ug/L			10/28/15 21:37	1
Acetone	10	U	10	0.94	ug/L			10/28/15 21:37	1
Benzene	1.0	U	1.0	0.35	ug/L			10/28/15 21:37	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/28/15 21:37	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/28/15 21:37	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/28/15 21:37	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/28/15 21:37	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/28/15 21:37	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/28/15 21:37	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/28/15 21:37	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/28/15 21:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/28/15 21:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/28/15 21:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-101915-TP-038
Date Collected: 10/19/15 15:27
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/28/15 21:37	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/28/15 21:37	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/28/15 21:37	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/28/15 21:37	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/28/15 21:37	1
Styrene	1.0	U	1.0	0.45	ug/L			10/28/15 21:37	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/28/15 21:37	1
Toluene	1.0	U	1.0	0.23	ug/L			10/28/15 21:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/28/15 21:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/28/15 21:37	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/28/15 21:37	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/28/15 21:37	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/28/15 21:37	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/28/15 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*78 - 125*		*10/28/15 21:37*	*1*
4-Bromofluorobenzene (Surr)	*91*		*61 - 120*		*10/28/15 21:37*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/28/15 21:37*	*1*
Dibromofluoromethane (Surr)	*100*		*79 - 120*		*10/28/15 21:37*	*1*

Client Sample ID: GW-102015-TP-039
Date Collected: 10/20/15 09:17
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/28/15 21:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/28/15 21:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/28/15 21:58	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/28/15 21:58	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/28/15 21:58	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/28/15 21:58	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/28/15 21:58	1
2-Hexanone	10	U	10	0.48	ug/L			10/28/15 21:58	1
Acetone	10	U	10	0.94	ug/L			10/28/15 21:58	1
Benzene	1.0	U	1.0	0.35	ug/L			10/28/15 21:58	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/28/15 21:58	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/28/15 21:58	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/28/15 21:58	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/28/15 21:58	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/28/15 21:58	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/28/15 21:58	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/28/15 21:58	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/28/15 21:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/28/15 21:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/28/15 21:58	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/28/15 21:58	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/28/15 21:58	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/28/15 21:58	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/28/15 21:58	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/28/15 21:58	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: GW-102015-TP-039
Date Collected: 10/20/15 09:17
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.45	ug/L			10/28/15 21:58	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/28/15 21:58	1
Toluene	1.0	U	1.0	0.23	ug/L			10/28/15 21:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/28/15 21:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/28/15 21:58	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/28/15 21:58	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/28/15 21:58	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/28/15 21:58	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/28/15 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*78 - 125*		*10/28/15 21:58*	*1*
4-Bromofluorobenzene (Surr)	*90*		*61 - 120*		*10/28/15 21:58*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/28/15 21:58*	*1*
Dibromofluoromethane (Surr)	*101*		*79 - 120*		*10/28/15 21:58*	*1*

Client Sample ID: SW-102015-TP-040
Date Collected: 10/20/15 09:25
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/28/15 22:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/28/15 22:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/28/15 22:20	1
1,1-Dichloroethane	**1.8**		1.0	0.30	ug/L			10/28/15 22:20	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/28/15 22:20	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/28/15 22:20	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/28/15 22:20	1
2-Hexanone	10	U	10	0.48	ug/L			10/28/15 22:20	1
Acetone	10	U	10	0.94	ug/L			10/28/15 22:20	1
Benzene	1.0	U	1.0	0.35	ug/L			10/28/15 22:20	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/28/15 22:20	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/28/15 22:20	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/28/15 22:20	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/28/15 22:20	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/28/15 22:20	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/28/15 22:20	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/28/15 22:20	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/28/15 22:20	1
cis-1,2-Dichloroethene	**37**		1.0	0.26	ug/L			10/28/15 22:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/28/15 22:20	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/28/15 22:20	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/28/15 22:20	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/28/15 22:20	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/28/15 22:20	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/28/15 22:20	1
Styrene	1.0	U	1.0	0.45	ug/L			10/28/15 22:20	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/28/15 22:20	1
Toluene	1.0	U	1.0	0.23	ug/L			10/28/15 22:20	1
trans-1,2-Dichloroethene	**0.85**	**J**	1.0	0.30	ug/L			10/28/15 22:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/28/15 22:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SW-102015-TP-040
Date Collected: 10/20/15 09:25
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/28/15 22:20	1
Vinyl chloride	**6.5**		1.0	0.29	ug/L			10/28/15 22:20	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/28/15 22:20	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/28/15 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*78 - 125*		*10/28/15 22:20*	*1*
4-Bromofluorobenzene (Surr)	*91*		*61 - 120*		*10/28/15 22:20*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/28/15 22:20*	*1*
Dibromofluoromethane (Surr)	*101*		*79 - 120*		*10/28/15 22:20*	*1*

Client Sample ID: SW-102015-TP-041
Date Collected: 10/20/15 09:30
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.4	U	1.4	0.63	ug/L			10/28/15 16:48	1.43
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.31	ug/L			10/28/15 16:48	1.43
1,1,2-Trichloroethane	1.4	U	1.4	0.34	ug/L			10/28/15 16:48	1.43
1,1-Dichloroethane	**1.7**		1.4	0.43	ug/L			10/28/15 16:48	1.43
1,1-Dichloroethene	1.4	U	1.4	0.64	ug/L			10/28/15 16:48	1.43
1,2-Dichloroethane	1.4	U	1.4	0.33	ug/L			10/28/15 16:48	1.43
1,2-Dichloropropane	1.4	U	1.4	0.36	ug/L			10/28/15 16:48	1.43
2-Hexanone	14	U	14	0.69	ug/L			10/28/15 16:48	1.43
Acetone	14	U	14	1.3	ug/L			10/28/15 16:48	1.43
Benzene	1.4	U	1.4	0.50	ug/L			10/28/15 16:48	1.43
Bromoform	1.4	U	1.4	0.80	ug/L			10/28/15 16:48	1.43
Bromomethane	1.4	U	1.4	0.63	ug/L			10/28/15 16:48	1.43
Carbon disulfide	1.4	U	1.4	0.54	ug/L			10/28/15 16:48	1.43
Carbon tetrachloride	1.4	U	1.4	0.61	ug/L			10/28/15 16:48	1.43
Chlorobenzene	1.4	U	1.4	0.36	ug/L			10/28/15 16:48	1.43
Chloroethane	1.4	U	1.4	0.46	ug/L			10/28/15 16:48	1.43
Chloroform	1.4	U	1.4	0.36	ug/L			10/28/15 16:48	1.43
Chloromethane	1.4	U	1.4	0.63	ug/L			10/28/15 16:48	1.43
cis-1,2-Dichloroethene	**35**		1.4	0.37	ug/L			10/28/15 16:48	1.43
cis-1,3-Dichloropropene	1.4	U	1.4	0.66	ug/L			10/28/15 16:48	1.43
Dichlorobromomethane	1.4	U	1.4	0.41	ug/L			10/28/15 16:48	1.43
Ethylbenzene	1.4	U	1.4	0.36	ug/L			10/28/15 16:48	1.43
2-Butanone (MEK)	14	U	14	0.76	ug/L			10/28/15 16:48	1.43
4-Methyl-2-pentanone (MIBK)	14	U	14	1.4	ug/L			10/28/15 16:48	1.43
Methylene Chloride	1.4	U	1.4	0.47	ug/L			10/28/15 16:48	1.43
Styrene	1.4	U	1.4	0.64	ug/L			10/28/15 16:48	1.43
Tetrachloroethene	1.4	U	1.4	0.44	ug/L			10/28/15 16:48	1.43
Toluene	1.4	U	1.4	0.33	ug/L			10/28/15 16:48	1.43
trans-1,2-Dichloroethene	**0.83**	**J**	1.4	0.43	ug/L			10/28/15 16:48	1.43
trans-1,3-Dichloropropene	1.4	U	1.4	0.80	ug/L			10/28/15 16:48	1.43
Trichloroethene	1.4	U	1.4	0.31	ug/L			10/28/15 16:48	1.43
Vinyl chloride	**4.7**		1.4	0.41	ug/L			10/28/15 16:48	1.43
Xylenes, Total	2.9	U	2.9	0.74	ug/L			10/28/15 16:48	1.43
Chlorodibromomethane	1.4	U	1.4	0.61	ug/L			10/28/15 16:48	1.43

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*114*		*78 - 125*		*10/28/15 16:48*	*1.43*
4-Bromofluorobenzene (Surr)	*91*		*61 - 120*		*10/28/15 16:48*	*1.43*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/28/15 16:48*	*1.43*
Dibromofluoromethane (Surr)	*118*		*79 - 120*		*10/28/15 16:48*	*1.43*

Client Sample ID: GW-102015-TP-042
Date Collected: 10/20/15 10:27
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.7	U	5.7	2.5	ug/L			10/28/15 17:11	5.71
1,1,2,2-Tetrachloroethane	5.7	U	5.7	1.3	ug/L			10/28/15 17:11	5.71
1,1,2-Trichloroethane	5.7	U	5.7	1.4	ug/L			10/28/15 17:11	5.71
1,1-Dichloroethane	5.7	U	5.7	1.7	ug/L			10/28/15 17:11	5.71
1,1-Dichloroethene	5.7	U	5.7	2.6	ug/L			10/28/15 17:11	5.71
1,2-Dichloroethane	5.7	U	5.7	1.3	ug/L			10/28/15 17:11	5.71
1,2-Dichloropropane	5.7	U	5.7	1.4	ug/L			10/28/15 17:11	5.71
2-Hexanone	57	U	57	2.7	ug/L			10/28/15 17:11	5.71
Acetone	57	U	57	5.4	ug/L			10/28/15 17:11	5.71
Benzene	5.7	U	5.7	2.0	ug/L			10/28/15 17:11	5.71
Bromoform	5.7	U	5.7	3.2	ug/L			10/28/15 17:11	5.71
Bromomethane	5.7	U	5.7	2.5	ug/L			10/28/15 17:11	5.71
Carbon disulfide	5.7	U	5.7	2.2	ug/L			10/28/15 17:11	5.71
Carbon tetrachloride	5.7	U	5.7	2.5	ug/L			10/28/15 17:11	5.71
Chlorobenzene	5.7	U	5.7	1.4	ug/L			10/28/15 17:11	5.71
Chloroethane	5.7	U	5.7	1.8	ug/L			10/28/15 17:11	5.71
Chloroform	5.7	U	5.7	1.4	ug/L			10/28/15 17:11	5.71
Chloromethane	5.7	U	5.7	2.5	ug/L			10/28/15 17:11	5.71
cis-1,2-Dichloroethene	**28**		5.7	1.5	ug/L			10/28/15 17:11	5.71
cis-1,3-Dichloropropene	5.7	U	5.7	2.6	ug/L			10/28/15 17:11	5.71
Dichlorobromomethane	5.7	U	5.7	1.7	ug/L			10/28/15 17:11	5.71
Ethylbenzene	5.7	U	5.7	1.4	ug/L			10/28/15 17:11	5.71
2-Butanone (MEK)	57	U	57	3.0	ug/L			10/28/15 17:11	5.71
4-Methyl-2-pentanone (MIBK)	57	U	57	5.7	ug/L			10/28/15 17:11	5.71
Methylene Chloride	5.7	U	5.7	1.9	ug/L			10/28/15 17:11	5.71
Styrene	5.7	U	5.7	2.6	ug/L			10/28/15 17:11	5.71
Tetrachloroethene	5.7	U	5.7	1.8	ug/L			10/28/15 17:11	5.71
Toluene	5.7	U	5.7	1.3	ug/L			10/28/15 17:11	5.71
trans-1,2-Dichloroethene	5.7	U	5.7	1.7	ug/L			10/28/15 17:11	5.71
trans-1,3-Dichloropropene	5.7	U	5.7	3.2	ug/L			10/28/15 17:11	5.71
Trichloroethene	5.7	U	5.7	1.3	ug/L			10/28/15 17:11	5.71
Vinyl chloride	**160**		5.7	1.7	ug/L			10/28/15 17:11	5.71
Xylenes, Total	11	U	11	3.0	ug/L			10/28/15 17:11	5.71
Chlorodibromomethane	5.7	U	5.7	2.5	ug/L			10/28/15 17:11	5.71

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*122*		*78 - 125*		*10/28/15 17:11*	*5.71*
4-Bromofluorobenzene (Surr)	*97*		*61 - 120*		*10/28/15 17:11*	*5.71*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/28/15 17:11*	*5.71*
Dibromofluoromethane (Surr)	*120*		*79 - 120*		*10/28/15 17:11*	*5.71*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: GW-102015-TP-043
Date Collected: 10/20/15 10:35
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	2.2	ug/L			10/28/15 17:34	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1	ug/L			10/28/15 17:34	5
1,1,2-Trichloroethane	5.0	U	5.0	1.2	ug/L			10/28/15 17:34	5
1,1-Dichloroethane	5.0	U	5.0	1.5	ug/L			10/28/15 17:34	5
1,1-Dichloroethene	5.0	U	5.0	2.3	ug/L			10/28/15 17:34	5
1,2-Dichloroethane	5.0	U	5.0	1.2	ug/L			10/28/15 17:34	5
1,2-Dichloropropane	5.0	U	5.0	1.3	ug/L			10/28/15 17:34	5
2-Hexanone	50	U	50	2.4	ug/L			10/28/15 17:34	5
Acetone	50	U	50	4.7	ug/L			10/28/15 17:34	5
Benzene	5.0	U	5.0	1.8	ug/L			10/28/15 17:34	5
Bromoform	5.0	U	5.0	2.8	ug/L			10/28/15 17:34	5
Bromomethane	5.0	U	5.0	2.2	ug/L			10/28/15 17:34	5
Carbon disulfide	5.0	U	5.0	1.9	ug/L			10/28/15 17:34	5
Carbon tetrachloride	5.0	U	5.0	2.2	ug/L			10/28/15 17:34	5
Chlorobenzene	5.0	U	5.0	1.3	ug/L			10/28/15 17:34	5
Chloroethane	5.0	U	5.0	1.6	ug/L			10/28/15 17:34	5
Chloroform	5.0	U	5.0	1.3	ug/L			10/28/15 17:34	5
Chloromethane	5.0	U	5.0	2.2	ug/L			10/28/15 17:34	5
cis-1,2-Dichloroethene	**28**		5.0	1.3	ug/L			10/28/15 17:34	5
cis-1,3-Dichloropropene	5.0	U	5.0	2.3	ug/L			10/28/15 17:34	5
Dichlorobromomethane	5.0	U	5.0	1.5	ug/L			10/28/15 17:34	5
Ethylbenzene	5.0	U	5.0	1.3	ug/L			10/28/15 17:34	5
2-Butanone (MEK)	50	U	50	2.7	ug/L			10/28/15 17:34	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			10/28/15 17:34	5
Methylene Chloride	5.0	U	5.0	1.7	ug/L			10/28/15 17:34	5
Styrene	5.0	U	5.0	2.3	ug/L			10/28/15 17:34	5
Tetrachloroethene	5.0	U	5.0	1.6	ug/L			10/28/15 17:34	5
Toluene	5.0	U	5.0	1.2	ug/L			10/28/15 17:34	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.5	ug/L			10/28/15 17:34	5
trans-1,3-Dichloropropene	5.0	U	5.0	2.8	ug/L			10/28/15 17:34	5
Trichloroethene	5.0	U	5.0	1.1	ug/L			10/28/15 17:34	5
Vinyl chloride	**150**		5.0	1.5	ug/L			10/28/15 17:34	5
Xylenes, Total	10	U	10	2.6	ug/L			10/28/15 17:34	5
Chlorodibromomethane	5.0	U	5.0	2.2	ug/L			10/28/15 17:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*78 - 125*		*10/28/15 17:34*	*5*
4-Bromofluorobenzene (Surr)	*91*		*61 - 120*		*10/28/15 17:34*	*5*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/28/15 17:34*	*5*
Dibromofluoromethane (Surr)	*111*		*79 - 120*		*10/28/15 17:34*	*5*

Client Sample ID: TB-102015-TP-006
Date Collected: 10/20/15 11:40
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/28/15 17:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/28/15 17:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/28/15 17:56	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/28/15 17:56	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/28/15 17:56	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-102015-TP-006
Date Collected: 10/20/15 11:40
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/28/15 17:56	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/28/15 17:56	1
2-Hexanone	10	U	10	0.48	ug/L			10/28/15 17:56	1
Acetone	**1.1**	**J**	10	0.94	ug/L			10/28/15 17:56	1
Benzene	1.0	U	1.0	0.35	ug/L			10/28/15 17:56	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/28/15 17:56	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/28/15 17:56	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/28/15 17:56	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/28/15 17:56	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/28/15 17:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/28/15 17:56	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/28/15 17:56	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/28/15 17:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/28/15 17:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/28/15 17:56	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/28/15 17:56	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/28/15 17:56	1
2-Butanone (MEK)	**1.2**	**J**	10	0.53	ug/L			10/28/15 17:56	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/28/15 17:56	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/28/15 17:56	1
Styrene	1.0	U	1.0	0.45	ug/L			10/28/15 17:56	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/28/15 17:56	1
Toluene	1.0	U	1.0	0.23	ug/L			10/28/15 17:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/28/15 17:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/28/15 17:56	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/28/15 17:56	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/28/15 17:56	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/28/15 17:56	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/28/15 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*78 - 125*		*10/28/15 17:56*	*1*
4-Bromofluorobenzene (Surr)	*90*		*61 - 120*		*10/28/15 17:56*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/28/15 17:56*	*1*
Dibromofluoromethane (Surr)	*117*		*79 - 120*		*10/28/15 17:56*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-125)	(61-120)	(80-120)	(79-120)
240-56881-1	GW-101915-TP-034	109	89	96	97
240-56881-1 MS	GW-101915-TP-034	105	106	103	95
240-56881-1 MSD	GW-101915-TP-034	100	105	104	92
240-56881-2	GW-101915-TP-035	111	92	97	99
240-56881-3	GW-101915-TP-036	111	89	95	100
240-56881-4	GW-101915-TP-037	110	87	93	99
240-56881-5	GW-101915-TP-038	113	91	94	100
240-56881-7	GW-102015-TP-039	112	90	97	101
240-56881-8	SW-102015-TP-040	111	91	98	101
240-56881-9	SW-102015-TP-041	114	91	100	118
240-56881-10	GW-102015-TP-042	122	97	100	120
240-56881-11	GW-102015-TP-043	112	91	95	111
240-56881-12	TB-102015-TP-006	114	90	100	117
LCS 240-204058/4	Lab Control Sample	105	95	93	98
LCS 240-204111/4	Lab Control Sample	106	106	104	97
MB 240-204058/6	Method Blank	107	90	94	110
MB 240-204111/6	Method Blank	111	94	98	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-204058/6
Matrix: Water
Analysis Batch: 204058

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/28/15 11:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/28/15 11:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/28/15 11:05	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/28/15 11:05	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/28/15 11:05	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/28/15 11:05	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/28/15 11:05	1
2-Hexanone	10	U	10	0.48	ug/L			10/28/15 11:05	1
Acetone	10	U	10	0.94	ug/L			10/28/15 11:05	1
Benzene	1.0	U	1.0	0.35	ug/L			10/28/15 11:05	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/28/15 11:05	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/28/15 11:05	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/28/15 11:05	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/28/15 11:05	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/28/15 11:05	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/28/15 11:05	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/28/15 11:05	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/28/15 11:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/28/15 11:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/28/15 11:05	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/28/15 11:05	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/28/15 11:05	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/28/15 11:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/28/15 11:05	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/28/15 11:05	1
Styrene	1.0	U	1.0	0.45	ug/L			10/28/15 11:05	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/28/15 11:05	1
Toluene	1.0	U	1.0	0.23	ug/L			10/28/15 11:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/28/15 11:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/28/15 11:05	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/28/15 11:05	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/28/15 11:05	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/28/15 11:05	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/28/15 11:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*78 - 125*		*10/28/15 11:05*	*1*
4-Bromofluorobenzene (Surr)	*90*		*61 - 120*		*10/28/15 11:05*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/28/15 11:05*	*1*
Dibromofluoromethane (Surr)	*110*		*79 - 120*		*10/28/15 11:05*	*1*

Lab Sample ID: LCS 240-204058/4
Matrix: Water
Analysis Batch: 204058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			10.0	10.1		ug/L		101	77 - 123		
1,1,2,2-Tetrachloroethane			10.0	12.0		ug/L		120	71 - 123		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-204058/4
Matrix: Water
Analysis Batch: 204058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	80 - 120
1,1-Dichloroethane	10.0	11.0		ug/L		110	79 - 125
1,1-Dichloroethene	10.0	8.51		ug/L		85	76 - 124
1,2-Dichloroethane	10.0	10.5		ug/L		105	80 - 120
1,2-Dichloropropane	10.0	11.2		ug/L		112	78 - 124
2-Hexanone	20.0	20.2		ug/L		101	55 - 141
Acetone	20.0	20.3		ug/L		102	34 - 148
Benzene	10.0	10.3		ug/L		103	80 - 120
Bromoform	10.0	12.1		ug/L		121	56 - 122
Bromomethane	10.0	6.24		ug/L		62	38 - 132
Carbon disulfide	10.0	9.16		ug/L		92	65 - 144
Carbon tetrachloride	10.0	12.3		ug/L		123	77 - 131
Chlorobenzene	10.0	10.6		ug/L		106	80 - 120
Chloroethane	10.0	7.35		ug/L		73	36 - 126
Chloroform	10.0	10.1		ug/L		101	80 - 120
Chloromethane	10.0	6.87		ug/L		69	48 - 133
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	79 - 120
cis-1,3-Dichloropropene	10.0	11.4		ug/L		114	74 - 126
Dichlorobromomethane	10.0	11.0		ug/L		110	80 - 120
Ethylbenzene	10.0	10.4		ug/L		104	80 - 120
m-Xylene & p-Xylene	10.0	10.3		ug/L		103	80 - 120
2-Butanone (MEK)	20.0	22.1		ug/L		110	56 - 138
4-Methyl-2-pentanone (MIBK)	20.0	22.5		ug/L		112	64 - 135
Methylene Chloride	10.0	9.52		ug/L		95	77 - 129
o-Xylene	10.0	10.8		ug/L		108	80 - 120
Styrene	10.0	10.1		ug/L		101	76 - 122
Tetrachloroethene	10.0	10.3		ug/L		103	78 - 121
Toluene	10.0	9.64		ug/L		96	80 - 120
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	80 - 124
trans-1,3-Dichloropropene	10.0	10.6		ug/L		106	75 - 131
Trichloroethene	10.0	10.6		ug/L		106	80 - 121
Vinyl chloride	10.0	7.22		ug/L		72	52 - 121
Xylenes, Total	20.0	21.1		ug/L		106	80 - 120
Chlorodibromomethane	10.0	11.1		ug/L		111	74 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*78 - 125*
4-Bromofluorobenzene (Surr)	*95*		*61 - 120*
Toluene-d8 (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*79 - 120*

Lab Sample ID: MB 240-204111/6
Matrix: Water
Analysis Batch: 204111

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/28/15 14:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/28/15 14:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-204111/6
Matrix: Water
Analysis Batch: 204111

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/28/15 14:02	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/28/15 14:02	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/28/15 14:02	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/28/15 14:02	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/28/15 14:02	1
2-Hexanone	10	U	10	0.48	ug/L			10/28/15 14:02	1
Acetone	10	U	10	0.94	ug/L			10/28/15 14:02	1
Benzene	1.0	U	1.0	0.35	ug/L			10/28/15 14:02	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/28/15 14:02	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/28/15 14:02	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			10/28/15 14:02	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/28/15 14:02	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/28/15 14:02	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/28/15 14:02	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/28/15 14:02	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/28/15 14:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/28/15 14:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/28/15 14:02	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			10/28/15 14:02	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/28/15 14:02	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/28/15 14:02	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/28/15 14:02	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			10/28/15 14:02	1
Styrene	1.0	U	1.0	0.45	ug/L			10/28/15 14:02	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/28/15 14:02	1
Toluene	1.0	U	1.0	0.23	ug/L			10/28/15 14:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/28/15 14:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/28/15 14:02	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/28/15 14:02	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/28/15 14:02	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/28/15 14:02	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			10/28/15 14:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*78 - 125*		*10/28/15 14:02*	*1*
4-Bromofluorobenzene (Surr)	*94*		*61 - 120*		*10/28/15 14:02*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/28/15 14:02*	*1*
Dibromofluoromethane (Surr)	*97*		*79 - 120*		*10/28/15 14:02*	*1*

Lab Sample ID: LCS 240-204111/4
Matrix: Water
Analysis Batch: 204111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	77 - 123
1,1,2,2-Tetrachloroethane	10.0	9.93		ug/L		99	71 - 123
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	80 - 120
1,1-Dichloroethane	10.0	11.5		ug/L		115	79 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-204111/4
Matrix: Water
Analysis Batch: 204111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	9.24		ug/L		92	76 - 124
1,2-Dichloroethane	10.0	11.9		ug/L		119	80 - 120
1,2-Dichloropropane	10.0	11.6		ug/L		116	78 - 124
2-Hexanone	20.0	26.3		ug/L		132	55 - 141
Acetone	20.0	21.4		ug/L		107	34 - 148
Benzene	10.0	10.4		ug/L		104	80 - 120
Bromoform	10.0	9.01		ug/L		90	56 - 122
Bromomethane	10.0	9.39		ug/L		94	38 - 132
Carbon disulfide	10.0	9.41		ug/L		94	65 - 144
Carbon tetrachloride	10.0	10.2		ug/L		102	77 - 131
Chlorobenzene	10.0	10.6		ug/L		106	80 - 120
Chloroethane	10.0	9.10		ug/L		91	36 - 126
Chloroform	10.0	11.1		ug/L		111	80 - 120
Chloromethane	10.0	12.0		ug/L		120	48 - 133
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	79 - 120
cis-1,3-Dichloropropene	10.0	10.6		ug/L		106	74 - 126
Dichlorobromomethane	10.0	10.5		ug/L		105	80 - 120
Ethylbenzene	10.0	10.5		ug/L		105	80 - 120
m-Xylene & p-Xylene	10.0	11.0		ug/L		110	80 - 120
2-Butanone (MEK)	20.0	22.5		ug/L		112	56 - 138
4-Methyl-2-pentanone (MIBK)	20.0	25.2		ug/L		126	64 - 135
Methylene Chloride	10.0	9.92		ug/L		99	77 - 129
o-Xylene	10.0	10.9		ug/L		109	80 - 120
Styrene	10.0	10.8		ug/L		108	76 - 122
Tetrachloroethene	10.0	10.5		ug/L		105	78 - 121
Toluene	10.0	10.9		ug/L		109	80 - 120
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	80 - 124
trans-1,3-Dichloropropene	10.0	11.8		ug/L		118	75 - 131
Trichloroethene	10.0	10.3		ug/L		103	80 - 121
Vinyl chloride	10.0	10.1		ug/L		101	52 - 121
Xylenes, Total	20.0	21.9		ug/L		110	80 - 120
Chlorodibromomethane	10.0	10.1		ug/L		101	74 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*78 - 125*
4-Bromofluorobenzene (Surr)	*106*		*61 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*79 - 120*

Lab Sample ID: 240-56881-1 MS
Matrix: Water
Analysis Batch: 204111

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	330	U	3330	3670		ug/L		110	69 - 122
1,1,2,2-Tetrachloroethane	330	U	3330	3280		ug/L		99	61 - 130
1,1,2-Trichloroethane	330	U	3330	3540		ug/L		106	72 - 125
1,1-Dichloroethane	470		3330	4390		ug/L		118	73 - 124

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-56881-1 MS
Matrix: Water
Analysis Batch: 204111

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	330	U	3330	3210		ug/L		96	67 - 124
1,2-Dichloroethane	330	U	3330	4110		ug/L		123	74 - 125
1,2-Dichloropropane	330	U	3330	3880		ug/L		116	73 - 122
2-Hexanone	3300	U	6670	9100		ug/L		137	49 - 142
Acetone	3300	U	6670	6620		ug/L		99	32 - 126
Benzene	330	U	3330	3610		ug/L		108	73 - 121
Bromoform	330	U	3330	2960		ug/L		89	45 - 121
Bromomethane	330	U	3330	3320		ug/L		100	26 - 136
Carbon disulfide	330	U	3330	3310		ug/L		99	54 - 144
Carbon tetrachloride	330	U	3330	3520		ug/L		106	65 - 129
Chlorobenzene	330	U	3330	3640		ug/L		109	72 - 120
Chloroethane	330	U	3330	3180		ug/L		95	27 - 131
Chloroform	330	U	3330	3850		ug/L		115	73 - 121
Chloromethane	330	U	3330	4070		ug/L		122	39 - 134
cis-1,2-Dichloroethene	12000		3330	15700	E	ug/L		98	66 - 124
cis-1,3-Dichloropropene	330	U	3330	3470		ug/L		104	60 - 120
Dichlorobromomethane	330	U	3330	3460		ug/L		104	72 - 120
Ethylbenzene	330	U	3330	3650		ug/L		110	68 - 121
m-Xylene & p-Xylene	670	U	3330	3780		ug/L		113	66 - 123
2-Butanone (MEK)	3300	U	6670	7940		ug/L		119	49 - 132
4-Methyl-2-pentanone (MIBK)	3300	U	6670	8660		ug/L		130	58 - 136
Methylene Chloride	330	U	3330	3330		ug/L		100	70 - 124
o-Xylene	330	U	3330	3720		ug/L		111	68 - 121
Styrene	330	U	3330	3630		ug/L		109	64 - 126
Tetrachloroethene	330	U	3330	3700		ug/L		111	59 - 125
Toluene	330	U	3330	3800		ug/L		114	72 - 122
trans-1,2-Dichloroethene	330		3330	3950		ug/L		109	72 - 125
trans-1,3-Dichloropropene	330	U	3330	3950		ug/L		119	58 - 132
Trichloroethene	1000		3330	4570		ug/L		106	61 - 129
Vinyl chloride	470		3330	3890		ug/L		103	44 - 122
Xylenes, Total	670	U	6670	7500		ug/L		113	67 - 122
Chlorodibromomethane	330	U	3330	3290		ug/L		99	62 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*78 - 125*
4-Bromofluorobenzene (Surr)	*106*		*61 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*79 - 120*

Lab Sample ID: 240-56881-1 MSD
Matrix: Water
Analysis Batch: 204111

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	330	U	3330	3530		ug/L		106	69 - 122	4	14
1,1,2,2-Tetrachloroethane	330	U	3330	3270		ug/L		98	61 - 130	0	18
1,1,2-Trichloroethane	330	U	3330	3530		ug/L		106	72 - 125	0	19
1,1-Dichloroethane	470		3330	4120		ug/L		109	73 - 124	6	14

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-56881-1 MSD
Matrix: Water
Analysis Batch: 204111

Client Sample ID: GW-101915-TP-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	330	U	3330	3040		ug/L		91	67 - 124	5	24
1,2-Dichloroethane	330	U	3330	3810		ug/L		114	74 - 125	8	24
1,2-Dichloropropane	330	U	3330	3690		ug/L		111	73 - 122	5	15
2-Hexanone	3300	U	6670	8680		ug/L		130	49 - 142	5	27
Acetone	3300	U	6670	6140		ug/L		92	32 - 126	7	28
Benzene	330	U	3330	3420		ug/L		103	73 - 121	5	13
Bromoform	330	U	3330	2800		ug/L		84	45 - 121	5	19
Bromomethane	330	U	3330	2830		ug/L		85	26 - 136	16	35
Carbon disulfide	330	U	3330	3020		ug/L		90	54 - 144	9	34
Carbon tetrachloride	330	U	3330	3260		ug/L		98	65 - 129	8	20
Chlorobenzene	330	U	3330	3520		ug/L		105	72 - 120	4	15
Chloroethane	330	U	3330	2680		ug/L		80	27 - 131	17	35
Chloroform	330	U	3330	3580		ug/L		107	73 - 121	7	17
Chloromethane	330	U	3330	3970		ug/L		119	39 - 134	2	20
cis-1,2-Dichloroethene	12000		3330	15100	E	ug/L		80	66 - 124	4	22
cis-1,3-Dichloropropene	330	U	3330	3370		ug/L		101	60 - 120	3	21
Dichlorobromomethane	330	U	3330	3240		ug/L		97	72 - 120	7	19
Ethylbenzene	330	U	3330	3490		ug/L		105	68 - 121	5	16
m-Xylene & p-Xylene	670	U	3330	3620		ug/L		108	66 - 123	4	15
2-Butanone (MEK)	3300	U	6670	7380		ug/L		111	49 - 132	7	19
4-Methyl-2-pentanone (MIBK)	3300	U	6670	8290		ug/L		124	58 - 136	4	32
Methylene Chloride	330	U	3330	3120		ug/L		93	70 - 124	7	14
o-Xylene	330	U	3330	3580		ug/L		107	68 - 121	4	14
Styrene	330	U	3330	3560		ug/L		107	64 - 126	2	15
Tetrachloroethene	330	U	3330	3490		ug/L		105	59 - 125	6	20
Toluene	330	U	3330	3700		ug/L		111	72 - 122	3	15
trans-1,2-Dichloroethene	330		3330	3650		ug/L		100	72 - 125	8	25
trans-1,3-Dichloropropene	330	U	3330	3870		ug/L		116	58 - 132	2	22
Trichloroethene	1000		3330	4330		ug/L		99	61 - 129	5	14
Vinyl chloride	470		3330	3720		ug/L		98	44 - 122	5	35
Xylenes, Total	670	U	6670	7200		ug/L		108	67 - 122	4	14
Chlorodibromomethane	330	U	3330	3160		ug/L		95	62 - 122	4	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*78 - 125*
4-Bromofluorobenzene (Surr)	*105*		*61 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*79 - 120*

QC Association Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-3

GC/MS VOA

Analysis Batch: 204058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-9	SW-102015-TP-041	Total/NA	Water	8260B	
240-56881-10	GW-102015-TP-042	Total/NA	Water	8260B	
240-56881-11	GW-102015-TP-043	Total/NA	Water	8260B	
240-56881-12	TB-102015-TP-006	Total/NA	Water	8260B	
LCS 240-204058/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-204058/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 204111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56881-1	GW-101915-TP-034	Total/NA	Water	8260B	
240-56881-1 MS	GW-101915-TP-034	Total/NA	Water	8260B	
240-56881-1 MSD	GW-101915-TP-034	Total/NA	Water	8260B	
240-56881-2	GW-101915-TP-035	Total/NA	Water	8260B	
240-56881-3	GW-101915-TP-036	Total/NA	Water	8260B	
240-56881-4	GW-101915-TP-037	Total/NA	Water	8260B	
240-56881-5	GW-101915-TP-038	Total/NA	Water	8260B	
240-56881-7	GW-102015-TP-039	Total/NA	Water	8260B	
240-56881-8	SW-102015-TP-040	Total/NA	Water	8260B	
LCS 240-204111/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-204111/6	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-3

Client Sample ID: GW-101915-TP-034
Date Collected: 10/19/15 11:12
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		333.33	204111	10/28/15 14:41	RJQ	TAL CAN

Client Sample ID: GW-101915-TP-035
Date Collected: 10/19/15 12:24
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		333.33	204111	10/28/15 16:30	RJQ	TAL CAN

Client Sample ID: GW-101915-TP-036
Date Collected: 10/19/15 13:33
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	204111	10/28/15 20:53	RJQ	TAL CAN

Client Sample ID: GW-101915-TP-037
Date Collected: 10/19/15 14:34
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	204111	10/28/15 21:15	RJQ	TAL CAN

Client Sample ID: GW-101915-TP-038
Date Collected: 10/19/15 15:27
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	204111	10/28/15 21:37	RJQ	TAL CAN

Client Sample ID: GW-102015-TP-039
Date Collected: 10/20/15 09:17
Date Received: 10/21/15 16:19

Lab Sample ID: 240-56881-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	204111	10/28/15 21:58	RJQ	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-3

Client Sample ID: SW-102015-TP-040
Lab Sample ID: 240-56881-8
Date Collected: 10/20/15 09:25
Matrix: Water
Date Received: 10/21/15 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	204111	10/28/15 22:20	RJQ	TAL CAN

Client Sample ID: SW-102015-TP-041
Lab Sample ID: 240-56881-9
Date Collected: 10/20/15 09:30
Matrix: Water
Date Received: 10/21/15 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1.43	204058	10/28/15 16:48	LEE	TAL CAN

Client Sample ID: GW-102015-TP-042
Lab Sample ID: 240-56881-10
Date Collected: 10/20/15 10:27
Matrix: Water
Date Received: 10/21/15 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5.71	204058	10/28/15 17:11	LEE	TAL CAN

Client Sample ID: GW-102015-TP-043
Lab Sample ID: 240-56881-11
Date Collected: 10/20/15 10:35
Matrix: Water
Date Received: 10/21/15 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	204058	10/28/15 17:34	LEE	TAL CAN

Client Sample ID: TB-102015-TP-006
Lab Sample ID: 240-56881-12
Date Collected: 10/20/15 11:40
Matrix: Water
Date Received: 10/21/15 16:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	204058	10/28/15 17:56	LEE	TAL CAN

Laboratory References:
TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: GHD Services Inc.
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-56881-3

Laboratory: TestAmerica Canton

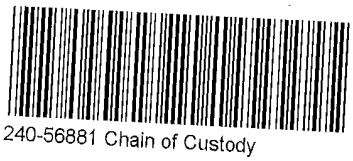
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	10-30-15 *
New York	NELAP	2	10975	03-31-16
Ohio VAP	State Program	5	CL0024	10-31-15 *
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



5.01C4.5

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 03942
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017302/T07/CRA15	Laboratory Name: Test America	Lab Location: North Canton, OH	SSOW ID: 017302-T07
Project Name: RACER MCK	Lab Contact: Denise Heckler	Lab Quote No:	Cooler No: 1 of 2
Project Location: Anderson, IN			Carrier: FedEx
Chemistry Contact: Deb Andrasko			Airbill No: 6443 7561 2848
Sampler(s): Tim Pranger			Date Shipped: 10/19/15

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOC	DRO, Cores	TOC	DOC *	MS/MSD Request	Comments/ Special Instructions:
1	GW-101915-TP-034	10/19/15	11:12	WG	G		15		8					23	X	X	X	X		MS/MSD
2	GW-101915-TP-035		12:24				6		4					10	X	X	X	X		
3	GW-101915-TP-036		13:33				6		4					10	X	X	X	X		
4	GW-101915-TP-037		14:34				6		4					10	X	X	X	X		
5	GW-101915-TP-028		15:27	WG			6		4					10	X	X	X	X		
6	TB-101915-TP-005	10/19/15	15:45	WQ	G		1							1	X					* Field Filtered
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 64

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	GHD	10/19/15	16:30	1.	TA Can	10/20/15	1030
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

Chain of Custody Record

261(2.1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Ms. Deborah Andrasko	Phone: 317-291-7025	Heckler, Denise D E-Mail: denise.heckler@testamericainc.com	FedEx 6443756128 9	240-30551-13405.5 Page: Page 5 of 9
Company: GHD Services Inc.				Job #: 017302-TOT-CRA15
Address: 2055 Niagara Falls Blvd., Suite 3	Due Date Requested:			
City: Niagara Falls	TAT Requested (days): 2 week (STD)			
State, Zip: NY, 14304				
Phone:	PO #: Purchase Order Requested			
Email: deborah.andrasko@ghd.com	WO #: 17302			
Project Name: 17302, RACER Delphi Anderson	Project #: 24007143			
Site: RACER Anderson	SSOW#: 017302-TOT			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	9034_Calc - Sulfide	2320B - Alkalinity, Carb and Bicarb	2340C - Hardness as calcium carbonate	9060_Diss - DOC	RSK_175 - Dissolved Gases	9060 - TOC	300.0_28D - Chloride, Sulfate, Nitrate, Nitrite	6010B - Manganese--Diss, field filtered*				Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	CB	N	D	S	A	S	N	D					
GW-101915-TP-034	10/19/15	11:12	G	Water	Y	Y		2	2	2				2	2				10	MS/MSD
GW-101915-TP-035		12:24		Water	Y	N		1	1	1				1	1				5	
GW-101915-TP-036		13:33		Water	Y	N		1	1	1				1	1				5	
GW-101915-TP-037		14:34		Water	Y	N		1	1	1				1	1				5	
GW-101915-TP-038	10/19/15	15:27	G	Water	Y	N		1	1	1				1	1				5	
				Water																
				Water																* Field Filtered
				Water																
				Water																
				Water																
				Water															30	Total

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FedEx	
Relinquished by:	Date/Time: 10/19/15 16:30	Company: GHD	Received by:	Date/Time: 10/20/15 1030 Company: TA Con
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

1.6[C].J

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Tim Prenger	Lab PM: Heckler, Denise D	Carrier Tracking No(s): Fed Ex 644437561 2837	COC No: 240-30551-13405.4
Client Contact: Ms. Deborah Andrasko	Phone:	E-Mail: denise.heckler@testamericainc.com		Page: Page 4 of 9
Company: GHD Services Inc.		Analysis Requested		Job #: 017302-T07-CRAIG
Address: 2055 Niagara Falls Blvd., Suite 3	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
City: Niagara Falls	TAT Requested (days): 2 week (STD)			
State, Zip: NY, 14304				
Phone:	PO #: Purchase Order Requested			Other:
Email: deborah.andrasko@ghd.com	WO #: 17302			
Project Name: 17302, RACER Delphi Anderson	Project #: 24007143			
Site: RACER Anderson, IN	SSOW#: 017302-T07			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	9034_Calc - Sulfide	2320B - Alkalinity, Carb and Bicarb	2340C - Hardness as calcium carbonate	9060_Diss - DOC (*)	RSK_175 - Dissolved Gases	9060 - TOC	300.0_28D - Chloride, Sulfate, Nitrate, Nitrite	6010B - Manganese--Diss, field filtered (*)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	CB	N	D	S	A	S	N	D		
GW-102015-TP-039	10/20/15	9:17	G	Water		N	X									3	
SW-102015-TP-040		9:25		Water		N	X									3	
SW-102015-TP-041		9:30		Water		N	X									3	
GW-102015-TP-042		10:27		Water	Y	N	X	X	X	X	X	X	X	X		15	
GW-102015-TP-043		10:35		Water	Y	N	X	X	X	X	X	X	X	X		15	
TB-102015-TP-006	10/20/15	11:40	G	Water		N	X									1	
				Water													
				Water													* Field Filtered
				Water													
				Water													
				Water												(40)	Total

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10/20/15/13:00	GHD	[signature]	10/20/15 1030	TA Co
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

1.6/C1.1

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Tim Doerges	Lab PM: Heckler, Denise D	Carrier Tracking No(s): FedEx 644375612837	COC No: 240-30551-13405.6
Client Contact: Ms. Deborah Andrasko	Phone:	E-Mail: denise.heckler@testamericainc.com		Page: Page 6 of 9
Company: GHD Services Inc.				Job #:
Address: 2055 Niagara Falls Blvd., Suite 3	Due Date Requested:			
City: Niagara Falls	TAT Requested (days): 2 week (STD) Have on Hold			
State, Zip: NY, 14304				
Phone:	PO #: Purchase Order Requested			
Email: deborah.andrasko@ghd.com	WO #: 17302			
Project Name: 17302, RACER Delphi Anderson	Project #: 24007143			
Site: RACER Anderson, IN	SSOW#: 17302-707			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	9034_Calc - Sulfide	2320B - Alkalinity, Carb and Bicarb	2340C - Hardness as calcium carbonate	9060_Diss - DOC	RSK_175 - Dissolved Gases	9060 - TOC	300.0_28D - Chloride, Sulfate, Nitrate, Nitrite	6010B - Manganese--Diss, field filtered				Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	CB	N	D	S	A	S	N	D					
WW-102015-TP-001	10/20/15	1120	G	Water			X												3	Hold
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10/20/15 / 13:00	GHD	[signature]	10/20/15 1030	TA Co
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

10/30/2015

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 56881

Client GHD Site Name

Cooler unpacked by: Jerry Bruno

Cooler Received on 10/28/15 Opened on 10/28/15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other Multiple

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
   - IR GUN# 53 (CF +**0.1** °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
   - IR GUN# 48 (CF **-0.3** °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
   - ~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~
   - IR GUN# 8 (CF **-0.5** °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

   ☒ See Multiple Cooler Form

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 each — Yes No
   - -Were custody seals on the outside of the cooler(s) signed & dated? — Yes No NA
   - -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? — Yes No
3. Shippers' packing slip attached to the cooler(s)? — Yes No
4. Did custody papers accompany the sample(s)? — Yes No
5. Were the custody papers relinquished & signed in the appropriate place? — Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? — Yes No
7. Did all bottles arrive in good condition (Unbroken)? — Yes No
8. Could all bottle labels be reconciled with the COC? TB — ~~Yes~~ No
9. Were correct bottle(s) used for the test(s) indicated? — Yes No
10. Sufficient quantity received to perform indicated analyses? — Yes No
11. Were sample(s) at the correct pH upon receipt? — Yes No NA pH Strip Lot# **HC554612**
12. Were VOAs on the COC? — Yes No
13. Were air bubbles >6 mm in any VOA vials? — Yes No NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # — Yes No

Contacted PM NAP Date 10/28/15 by JB via Verbal Voice Mail Other

Concerning #14

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

GW-101915-TP-038 only need 8260 VOCs

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

Ref: SOP NC-SC-0005, Sample Receiving
X:\X-Drive Document Control\SOPs\Work Instructions\Word Version Work Instructions\WI-NC-099V-102115 Cooler Receipt Form.doc djl

TestAmerica Multiple Cooler Receipt Form/Narrative **Login # :**_____
Canton Facility

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Indy	8	1.6	1.1	ICE
Pitt	1	2.6	2.1	1
Indy	1	5.0	4.5	1

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
GW-101915-TP-034	240-56881-AA-1	Plastic 250ml - with Nitric Acid	<2		
GW-101915-TP-034	240-56881-AD-1	Plastic 500ml - with Nitric Acid	<2		
GW-101915-TP-034	240-56881-AE-1	Plastic 500ml - with Nitric Acid	<2		
GW-101915-TP-034	240-56881-AF-1	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101915-TP-034	240-56881-AG-1	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101915-TP-034	240-56881-Z-1	Plastic 250ml - with Nitric Acid	<2		
GW-101915-TP-035	240-56881-L-2	Plastic 250ml - with Nitric Acid	<2		
GW-101915-TP-035	240-56881-N-2	Plastic 500ml - with Nitric Acid	<2		
GW-101915-TP-035	240-56881-O-2	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101915-TP-036	240-56881-L-3	Plastic 250ml - with Nitric Acid	<2		
GW-101915-TP-036	240-56881-N-3	Plastic 500ml - with Nitric Acid	<2		
GW-101915-TP-036	240-56881-O-3	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-101915-TP-037	240-56881-L-4	Plastic 250ml - with Nitric Acid	<2		
GW-101915-TP-037	240-56881-N-4	Plastic 500ml - with Nitric Acid	<2		
GW-101915-TP-037	240-56881-O-4	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-102015-TP-042	240-56881-L-10	Plastic 250ml - with Nitric Acid	<2		
GW-102015-TP-042	240-56881-N-10	Plastic 500ml - with Nitric Acid	<2		
GW-102015-TP-042	240-56881-O-10	Plastic 1 liter - Zn Acetate and NaO	>9		
GW-102015-TP-043	240-56881-L-11	Plastic 250ml - with Nitric Acid	<2		
GW-102015-TP-043	240-56881-N-11	Plastic 500ml - with Nitric Acid	<2		
GW-102015-TP-043	240-56881-O-11	Plastic 1 liter - Zn Acetate and NaO	>9		