HALEY ALDRICH

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REVISED SOIL REMEDIAL ACTION REPORT ADDENDUM
EWING TOWNSHIP INDUSTRIAL LAND
1445 PARKWAY AVENUE
EWING, NEW JERSEY

by Haley & Aldrich, Inc.
Parsippany, New Jersey

for New Jersey Department of Environmental Protection
Trenton, New Jersey

File No. 70613 June 2018



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15 June 2018
File No. 70613

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
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Subject: Revised Soil Remedial Action Report Addendum
Ewing Township Industrial Land
Former Delphi Interior and Lighting Systems Division
1445 Parkway Avenue
Ewing, New Jersey
NJDEP SRP PI No. 011336
ISRA Case No. E97070

Ladies and Gentlemen:

On behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, Haley & Aldrich, Inc. (Haley & Aldrich) is providing this Revised Soil Remedial Action Report (RAR) Addendum for the Ewing Township Industrial Land site (Site) located at 1445 Parkway Avenue in Ewing, New Jersey. This Revised Soil RAR Addendum was prepared pursuant to the 17 November 2017 regarding Response to the 17 October 2017 NJDEP Comments on Soil Remedial Action Report Addendum Response to Comments dated 20 July 2017 And Proposed Remedial Action Workplan Addendum to the Revised RAW dated 2 December 2008. The following summarizes the Impact to Groundwater (IGW) analysis and remediation completed for soils at the Site to address the potential IGW issues. Presented herein are the findings and conclusions consistent with the requirements of N.J.A.C. 7:26E.

If you have questions, please do not hesitate to contact the undersigned.

Sincerely yours,
HALEY & ALDRICH, INC.

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Enclosures

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1. Introduction and Previous Work

The following Revised Addendum to the Soil Remedial Action Report (RAR) (Haley & Aldrich, October 2016) and the Soil Remedial Action Report Addendum (RARA) (Haley & Aldrich, May 2017) presents findings and conclusions based on supplemental impact to groundwater (IGW) pathway evaluations and remediation conducted in accordance with the requirements of N.J.A.C. 7:26E for the Ewing Township Industrial Land site (Site). The 2016 Soil RAR summarized remedial actions conducted at the Site prior to 1990 through November 2013. The potential for soil IGW was initially assessed in the Groundwater Remedial Investigation Report (GwRIR) dated May 2016, which identified nine constituents that could pose an IGW above Class II-A Groundwater Quality Standards. These constituents were further evaluated in the 2017 Soil RAR Addendum. Through correspondence and comments on the May 2017 Soil RAR Addendum, New Jersey Department of Environmental Protection (NJDEP) indicated that additional soil IGW evaluations and, if necessary, remediation activities should be documented. Pursuant to the 17 November 2017 Response to the October 17, 2017 NJDEP Comments on Soil Remedial Action Report Addendum Response to Comments dated July 20, 2017 and Proposed Remedial Action Workplan Addendum to the Revised RAW dated December 2, 2008, the following summarizes the additional IGW analysis and remediation completed for soils at the Site to address IGW issues.

1.1 SITE BACKGROUND

The Site is approximately 80 acres in size and is located at 1445 Parkway Avenue Lot 1.01, Block 343, of the tax map of Ewing Township, Mercer County, New Jersey (Figure 1). The Site was previously used as farmland and orchards prior to development and is the former location of a manufacturing facility that was owned and operated by General Motors Corporation. The Site was operated for motor vehicle parts manufacturing from 1938 to 1998 and was the facility operated as a Department of Defense aircraft assembly plant during World War II.

The Site has been referred to in the past by several names including the Turnstead Division of GM, Eastern Aircraft Division, Fisher Body Division, Fisher Guide Division, Inland Fisher Guide Division, Delphi Interior and Lighting Systems and the Old GM Plant. One or more of these names may have been used in previous reports or summaries of previous investigations and all refer to the facility. A Site plan is provided as Figure 2.

The manufacturing plant at the Site closed in 1998 and demolition of Site structures occurred between the fall of 2000 and the spring of 2002.

1.2 PHYSICAL SETTING

Ground surface topography in the region is generally flat with low rolling hills incised by stream valleys, such as Gold Run. The Site is bounded on the west and south by railroad tracks that are topographically higher than the Site. A ditch has been created between the Site and the railroad tracks on the southern (aka Southern Swale) side of the Site because the railroad tracks are slightly elevated. The Site is bounded to the north by commercial areas located along Parkway Avenue, which are topographically

higher than the Site; and Silvia Street to the east, which is an undeveloped dirt roadway to a nearby Ewing Township utility facility.

Rivers and streams within the vicinity of the Site, such as Gold Run and Jacobs Creek, flow generally to the south towards the Delaware River. The predominant surface water feature in the vicinity of the Site is Gold Run, which roughly transects the eastern side of the Site from north to south and is the topographic low of the Site. The storm sewers beneath Parkway Avenue discharge in the northeastern corner of the Site, which forms the present-day stream, Gold Run. Prior to 2011, the storm sewers beneath Parkway Avenue discharged into Gold Run Pond, which was located in the northeast corner and excavated in 2011, following excavation stream reconstruction was completed.

1.2.1 Geology

A detailed description of the Site geology is presented in the May 2016 GwRIR. In general, the following summarizes the current understanding of Site geology. The overburden soils range in thickness from 0 to 20 feet, overlying weathered bedrock. The soils are generally: fill, 0 to 10 feet thick; and residual bedrock, clays, silts, sands, and rock fragments, 0 to 10 feet thick. The soils are thinnest at the northwest corner of the Site, and thicken in the center of the Site, where extensive fill has been placed, then thin again toward Gold Run. The overburden soils typically are dry, with groundwater present in the underlying weathered bedrock. The weathered bedrock is highly fractured bedrock, up to a depth of 30 feet below ground surface (bgs), where it transitions to competent bedrock.

The underlying bedrock unit consists of alternating bands of light gray to reddish-brown, medium- to coarse-grained arkosic sandstone and red-brown to purple-brown siltstone and shale, with several thicker, more massive sandstone beds of the Raven Rock Member of the Stockton Formation. The bedrock was formed during the late Triassic period. Bedding planes typically strike N80˚E to N90˚E, with a gentle dip angle to the north/northwest ranging from nine to 14 degrees. Due to numerous episodes of faulting and fracturing, the bedrock is highly fractured, creating numerous hydraulically interconnected vertical and horizontal fractures with varying degrees of secondary mineralization. Bedding plane joints, typical in New Jersey geology, are present but their significance in relation to overall bedrock groundwater flow is overshadowed by significant structural geologic deformation, fracturing, and faulting.

1.2.2 Hydrogeology

The Site hydrogeology is presented in the May 2016 GwRIR. In general, the overburden/weathered bedrock unit is considered to constitute a single hydrogeologic unit and has an average hydraulic conductivity of $3x10^{-2}$ cm/s. Groundwater within the overburden/weathered bedrock aquifer flows from the west to east across the Site and discharges into Gold Run. Accordingly, Gold Run, which is typically founded on bedrock, is a hydrogeologic boundary along the eastern side of the Site for groundwater flowing through the overburdened/weathered bedrock.

Groundwater in the competent bedrock aquifer flows from the northwest corner of the Site to the south, southeast, and east. The bedrock groundwater flows east along the northern boundary of the Site, such that the northern boundary acts as up/side-gradient in the bedrock aquifer. The groundwater

on the western side of the Site follows a fault that has been identified through drilling and hydrogeologic testing to be a low- or no-flow boundary on the west side of the Site. Based on the groundwater contours the western half of the southern side of the Site appears to be up/side-gradient, while the eastern half of the southern side appears to be downgradient. Similar to the overburden/weathered bedrock, Gold Run has been interpreted as a receiving (gaining) stream for bedrock groundwater flow.

Fracturing in the upper portion of the weathered bedrock and competent bedrock is significant. A review of fracture frequency versus depth indicates that the lithostatic pressure typically reduces the frequency of open fractures past the 90 feet bgs depth. The decrease in fracture frequency corresponds to a general decrease in bedrock hydraulic conductivity with depth.

Vertical gradients across the Site vary spatially both in direction and magnitude. In areas proximal to groundwater flow boundaries, such as Gold Run and the fault along the western border of the Site, vertical groundwater flow is upward. In the areas located some distance from the boundaries vertical flow is downward, indicative of groundwater recharge. The overburden/weathered bedrock unit exhibits a hydraulic conductivity approximately an order of magnitude greater than the bedrock unit, indicating more significant groundwater flow occurs in the overburden/weathered bedrock.

1.3 SUMMARY OF PREVIOUS REPORTS

Provided below is a list of documents and reports that summarize key activities related to soil and groundwater investigation/delineation and document the remedial measures that have been conducted at the Site.

- Remedial Investigation Report, December 2003
- Supplemental Remedial Investigation Report, April 2005
- Remedial Action Workplan, June 2006
- Remedial Investigation Report/Groundwater Investigation Workplan, December 2006
- Revised Remedial Action Workplan, December 2008
- Remedial Investigation Progress Report, January 2009
- Groundwater Investigation Summary Report, May 2009
- Soil Remedial Investigation Report, May 2014
- Groundwater Remedial Investigation Report, May 2016
- Soil Remedial Action Report, October 2016
- Soil Remedial Action Report Addendum, May 2017
- Response to the May 2017 Soil RAR Addendum Comments Received June 26, 2017, July 2017
- Response to the October 17, 2017 NJDEP Comments on Soil Remedial Action Report Addendum Response to Comments dated July 20, 2017 And Proposed Remedial Action Workplan Addendum to the Revised RAW dated December 2, 2008

1.4 SUMMARY OF PREVIOUS REMEDIAL ACTIONS

A detailed synopsis of the remedial actions completed to date was presented to the NJDEP as part of the Soil RAR on October 2016. A brief summary of prior remedial actions, which includes over 18,000 tons of soil removed from the Site, is as follows:

- **AOC-01A – 1,000-Gallon Leaded Gasoline UST Removal.** This location was identified as having a UST which was formally used for fuel storage up until the 1950's. At some point during the plant operational history, the tank had all of the dispensing units and piping removed and disconnected, and that tank was partially filled with sand. In April 2008, the UST system (E006) was closed as part of on-going Site remediation activities. This remedial activity was previously documented in the 31 July 2008 Site Investigation Report for UST Closures. Approximately 119 tons of soil were excavated and disposed of from both this excavation and the 10,000-gallon UST removal and the area was backfilled.
- **AOC-01C – 10,000-Gallon UST Removal.** Based on review of a historical Site map, a suspected gasoline UST was located under the Solutions Storage Room located in the southeast corner of the former manufacturing slab in AOC-01C. At some point during the operational timeframe of the plant, the dispensing units and piping were removed from the UST and the tank was partially filled with sand. In April 2008, the UST system (E005) was closed as part of on-going Site remediation activities. This remedial activity was previously documented in the 31 July 2008 Site Investigation Report for UST Closures. Approximately 119 tons of soil were excavated and disposed of from both this excavation and the 1,000-gallon UST removal. Additionally, approximately 2,467-gallons of water was removed from the tank for disposal. Following excavation, the area was backfilled.
- **AOC-01C – Plater Pits #5 and #6 Excavations.** The 14 August 2009 NJDEP comment letter for the December 2008 Revised Remedial Action Workplan (RAW) considered Plater Pit #5 and Plater Pit #6 to be "hot spot[s]" "that required a permanent remedial strategy". Soil excavation activities were conducted between 24 September 2013 and 7 October 2013. The Plater Pit #5 excavation measured approximately 18.3 ft wide by 38.3 ft long and approximately 5 ft deep. Approximately 130 cy of material was removed from Plater Pit #5. The Plater Pit #6 excavation measured approximately 38.3 ft wide by 78.3 ft long by 5.8 ft deep. Approximately 644 cy of material were removed from Plater Pit #6. A total of 767 tons of soil was disposed of between 27 September 2013 and 4 October 2013. The area was then backfilled.
- **AOC-01D – LNAPL Remedial Measures.** Light Non-Aqueous Phase Liquid (LNAPL) was detected during an in-line video survey and cleaning of the storm sewer along the western side of the manufacturing building in 2007. Following hydro-jetting the storm sewer lines, oily liquid was observed seeping into a sewer catch basin. A measurable amount of LNAPL (0.13 ft) was observed on 3 August 2012 in AOC-01D in recovery well RW-101, installed to evaluate and remove free product, if present. The LNAPL Free Product Reporting Form (Initial LNAPL Discovery) was submitted on 26 September 2012. A detailed description of the investigation and monitoring was presented in the 19 March 2014 LNAPL IRM Report along with the Updated LNAPL Free Product Reporting Form. LNAPL levels were monitored from the recovery wells RW-100 through RW-102. If measurable amounts (>0.01 ft) of LNAPL were detected, absorbent socks were placed within the wells to recover this material for disposal. The maximum thickness observed during monitoring was 0.22 ft in August 2012. Monitoring began on 31 August 2012 and continued through 24 April 2014. No measurable LNAPL has been observed in the wells since October 2013. Additionally, test pits were dug to delineate the residual LNAPL in October 2013. The Area was determined to be no longer an issue and all recoverable LNAPL was captured using absorbent socks and booms placed in recovery wells and test pits, respectively. Socks and booms once saturated were removed and replaced with new socks or booms. Off-site disposal of saturated socks and booms occurred in April 2015.

- **AOC-02 – PCB Transformer Spill Excavations.** A release of PCBs was identified in the vicinity of transformer M-1 near the former Primary Electrical Switch House and likely occurred during building decommissioning between the fall of 2000 and spring of 2002. In June 2004 and May 2005 soil excavations were conducted to remove PCB contaminated soil. Several soil boring events were conducted to delineate the extent of soil contamination prior to excavation. In 2004 and 2005, approximately 332 tons of PCB-impacted soils were excavated and disposed off-site. Following excavation, the area was backfilled.
- **AOC-03 – Historic Gasoline UST Removals.** Two gasoline USTs and associated fuel pumps located within AOC-03 were removed in 1987 and 1989. This area was formally known as Memorandum of Agreement (MOA) Area D – Former Gasoline UST Area. One UST (E007) was 4,000-gallons and the second UST (E001) was 2,000-gallons. For these historic UST removals, specific details on excavation amount, soil disposal location and fill information are not known. However, the nature and extent of soil contamination in this area has been investigated and delineated.
- **AOC-08A – Historic Oil/Water Separator and Waste Oil UST Removal.** Demolition and removal of the old oil/water separator and 30,000- gallon waste oil UST (E002) and backfilling of the excavation was conducted between November 1996 and early January 1997. Approximately 62 drums of sludge material removed from the old oil/water separator prior to demolition and transported offsite. Approximately 176 tons of soil were removed during demolition and transported off-site. The area was backfilled to grade.
- **AOC-09 – Parking Lot Equipment Storage Area PCB Excavations.** AOC-09 was used as the powerhouse parking lot. PCB contamination was identified in this area, which did not appear to be related to operations. A review of historical aerial photographs indicated that the PCBs were most likely associated with fill material placed in the 1950s during parking lot construction. Two excavations were conducted in the area, the northern excavation (333 cubic yards) and the southern excavation (415 cubic yards). Approximately 108 tons of soil classified as hazardous and 713 tons of soil classified as non-hazardous were excavated from both of these areas and disposed of-site. The area was backfilled with both clean fill and alternative fill from off-site.
- **AOC-11 – Former Gold Run Pond Excavation.** Sediment in Gold Run Pond was identified to contain elevated concentrations of TCE and other constituents exceeding the NJDEP Freshwater Sediment Screening Guidelines. TCE was detected in historical sediments (at depths from 2-3 ft) at concentrations up to 130 mg/kg. Elevated concentrations of TCE in surface water were also identified at the outfall of the Parkway Avenue storm water sewer which conveys surface water run-off from the nearby NAWC, residential areas, and Gold Run headwaters. During the period of September to November 2011, approximately 11,250 tons of soils/sediments were removed and disposed off-site. Following excavation activities, the former pond area was backfilled and restored to natural wetland and riparian conditions.
- **AOC-11 – Historic Buried Drum Removal.** In 1993, a former employee reported to facility personnel that approximately forty 55-gallon drums containing barium chromate waste had been buried in an area along the eastern property boundary. A geophysical survey of the suspected drum burial area was performed in 1994 A total of 190 drums were removed and disposed off-site from this area. Approximately 171 tons of soil below and around the drums, drums, and sawdust were removed from MOA Area A and transported off-site in roll-off boxes. During excavations approximately 20,000-gallons of water was pumped from the excavation and disposed of off-site.

- **AOC-12 – Southern Drainage Swale Excavation.** Soil in the southern swale along the boundary of the Site and the railroad tracks had previously indicated impacts from various metals and semivolatile organic compounds (SVOCs). In September 2011, excavation activities were conducted along the southern swale and approximately 4,388 tons of soil was disposed of offsite from this excavation activity. The area was restored to a natural state with backfill.

2. Regulatory Status

2.1 NJDEP CASE INVENTORY DOCUMENT

The completed NJDEP Case Inventory Document (CID) is included as Appendix A - .

2.2 AUTHORIZATION TO SUBMIT RAR FORM AND COVER/CERTIFICATION FORM

This Revised Soil RAR Addendum is being submitted electronically through the NJDEP online portal. A copy of the "Authorization to Submit RIR, RAW, or RAR" form is provided in Appendix B. A copy of the signed Cover/Certification Form is also included in Appendix B.

2.3 REGULATORY TIMEFRAME

Evidence of a discharge at this Site was discovered prior to 7 May 1999. Therefore, in accordance with the Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq. (SRRA), specifically N.J.A.C. 58:10C-27a(3), the 7 May 2014 remedial investigation deadline applied to this Site. However, an extension request based on meeting criteria from section one of P.L.2013, c.283 was submitted to NJDEP on 20 March 2014, extending the deadline to complete the remedial investigation to 7 May 2016. This regulatory requirement was satisfied by submittal of a Soil RIR submitted to NJDEP on 19 June 2014 and a GwRIR submitted to NJDEP in May 2016. In addition, in accordance with N.J.A.C. 7:26E-5.8(b)2, implementation of remedial actions and submittal of a final remediation documents are required by 7 May 2021.

3. Impact to Groundwater Pathway Evaluation

This section describes the steps taken in the assessment of the IGW pathway, based on the results of the site-specific evaluation presented in the May 2016 GwRIR, May 2017 Soil RAR Addendum, along with technical consultation and communications with the NJDEP in 2016 and 2017. The process consisted of the following steps;

- Initial IGW Evaluation to determine constituents requiring further IGW analysis.
- Supplemental Data Collection
  - Monitoring well development to assess impacts of turbidity on groundwater concentrations.
  - SPLP sampling to determine site-specific criteria.
  - Supplemental soil borings to define functional areas and to provide delineation.
- Development of IGW Site Specific Soil Remediation Standards (IGWSSSRS)
- Application of IGWSSSRS
  - Step One – Single Point Compliance
  - Step Two – Historic Fill Evaluation
  - Step Three – Arsenic Evaluation
  - Step Four – Immobile Contaminate Evaluation
  - Step Five – Functional Area Analysis

3.1 INITIAL IMPACT TO GROUNDWATER EVALUATION

The potential for soil IGW was initially assessed utilizing a conservative approach and the default IGWSSLs in the GwRIR dated May 2016, which identified nine constituents that could potentially pose an IGW above Class II-A Groundwater Quality Standards for arsenic, lead, nickel, benzene, chlorobenzene, trichloroethene, vinyl chloride, benzo(a)anthracene, and benzo(a)pyrene. These constituents were identified as being potentially significant based on an AOC-by-AOC approach. In their review of the May 2016 GwRIR, NJDEP indicated their desire to include chromium and zinc in this evaluation, as such these constituents were included for further evaluation.

The approach presented in Section 3.4 follows a step-wise analysis, whereby individual locations with exceedances of IGW criteria are evaluated on an individual and then a localized basis to identify areas that required further remediation. These evaluation activities are detailed in the Haley & Aldrich *Response to Comments on Soil Remedial Action Report Addendum Response to Comments dated July 20, 2017*, dated 17 November 2017 (hereafter referred to as November 2017 Response to Comments) and generally concurred with by NJDEP in an email dated 27 March 2018 (Appendix C).

3.2 SUPPLEMENTAL DATA COLLECTION

The GwRIR concluded that further evaluation was required for the potential IGW issues that were identified. The additional evaluation included redevelopment of older monitoring wells that were suspected to have turbidity issues that were originally through to be causing elevates groundwater concentrations during sampling as opposed to elevated levels from impacts from soils. Soil sample

collection for development of Site-specific screening criteria for IGW and refining data gaps for development of functional areas. Extensive investigation has been conducted to date to delineate scattered constituent detections across the Site. The investigations have included follow-up and re-sampling events to define elevated detections at many of the pre-2009 soil boring locations. The following summarize the extensive effort conducted to define the nature and extent of impacts at the Site:

- Soil Borings: 1628
- Monitoring Wells: 142
- Sediment Samples: 123
- Soil Samples (Vadose Zone): 3155
- Soil Samples (Saturated): 293
- Rock Samples 13

3.2.1 Monitoring Well Redevelopment

As detailed in the GwRIR, due to the age of many Site monitoring wells, sediment accumulation was suspected to be influencing the concentrations of some metals and SVOCs within the wells. The monitoring wells varied in age from 30 years old (MW-4, MW-5, MW-6, and MW-7) to six years old (MW-77). When evaluating the impact to groundwater pathway, groundwater concentrations were used as a line of evidence for immobile contaminate determinations. To make sure the sample elevations were from the groundwater as opposed to sediment in the groundwater due to turbidity, the wells were developed and then resampled. To test this hypothesis, the wells were redeveloped to remove any sediment that may be causing false positive results and/or elevated concentrations of these constituents in groundwater and the wells were re-sampled.

During the first quarter of 2016, nine monitoring wells (MW-1A, MW-4, MW-4A, MW-5, MW-5A, MW-6, MW-6A, MW-7, and MW-77) were redeveloped to assess the impact of sediment on constituent concentrations. These wells were redeveloped utilizing submersible pumps through a combination of surging to loosen sediment and purging to remove it from the well. The wells had too much sediment and were too large in diameter to effectively remove sediment using this method.

In September 2016, 10 additional monitoring wells (MW-2, MW-2A, MW-3, MW-3A, MW-15, MW-15A, MW-21A, MW-25, MW-35, and MW-35A), along with the nine previously developed wells (MW-4, MW-4A, MW-5, MW-5A, MW-6, MW-6A), were redeveloped using surging and over-pumping for a longer period of time (minimum of two hours with a maximum of four hours and at a higher pumping rate of approximately 0.7 to 1.5 gpm) to remove accumulated fine-grained material from the well screen and sand pack. Turbidity in the water removed from the well was continuously monitored with a turbidity meter. Redevelopment was terminated when the turbidity was reduced below 50 NTU and no new fine-grained material was being recovered or the maximum time limit was reached.

Following redevelopment, groundwater samples were collected via low flow techniques in October 2016, as part of Site-wide groundwater monitoring, to assess the effectiveness of redevelopment on groundwater concentrations. A comparison of pre- and post-redevelopment concentrations is presented on Table I in Appendix D. The results indicate that the metals concentrations remain

relatively consistent, with the exception of MW-77 which indicated a decrease in total chromium and lead as a result of well redevelopment activities in early 2016. Although the redevelopment activities reduced turbidity in the monitoring wells, it did not appear to address the elevated detections of the key constituents benzo(a)anthracene, benzo(a)pyrene, arsenic, lead, and nickel; accordingly, these constituents were further evaluated as described below.

3.2.2 SPLP Sampling

Two sets of SPLP sampling results were evaluated per the NJDEP's *Development of Site-Specific Impact to Ground Water Soil Remediation Standards Using the Synthetic Precipitation Leaching Procedure* guidance document, version 3.0, dated November 2013, as detailed below to develop a site-specific alternative remedial standard. To determine if the samples would be conducive to producing SPLP results, samples were analyzed first for total contaminants. If the total sample results indicated detections of the key constituents, the samples were then analyzed utilizing USEPA SW-846 Method 1312 for SPLP. If there were no detections of the key constituents of primary concern (COPCs), other samples were selected for analysis. The results are included in Appendix E. Table I provides a list of the SPLP samples collected.

3.2.2.1 April 2012 SPLP Sampling

As part of Site investigation activities in April 2012, 22 soil samples from 11 soil boring locations were collected and analyzed for SPLP analysis across the Site (Appendix E).

The soil borings were advanced utilizing direct-push drilling techniques and soil cores were continuously collected from ground surface to target depth at each location. The soil borings were drilled to a range of depths from 5 to 15 feet bgs and up to three samples were collected from the unsaturated zone at each location. Soil boring logs were created for each boring location and are presented in Appendix E. Soil samples were characterized and screened for volatile organic compounds (VOCs) utilizing a portable Photoionization Detector (PID). Soil samples for SPLP analysis were collected targeting the areas and depths of "hot spots" with the potential to impact groundwater, as determined by previous soil sampling results and NJDEP comments.

The analytical results are summarized in Appendix E and were evaluated further, as presented in Section 3.3.

3.2.2.2 September 2016 SPLP Sampling

In September 2016, soil borings were advanced and 74 soil samples were collected at 53 locations (Appendix E) for additional SPLP analysis. Target constituents were chosen based upon the finalized list of constituents presented in the beginning of this section. Additionally, locations with VOC concentrations were targeted during this event to assess the leaching potential for these constituents. The sample locations were chosen based upon two primary criteria:

- **Previously analyzed and reported concentrations** – Previously sampled locations with high concentrations of COPCs were targeted for SPLP analysis. Sample distribution within those

zones was chosen to reflect a range of concentrations for eight of the COPCs: arsenic, benzene, chlorobenzene, chromium, nickel, trichloroethene, vinyl chloride, and zinc.

- **Representation of Site conditions** – Locations were also chosen based upon how the location represented Site conditions (e.g., borings were not collected in soils/areas that displayed uncommon or anomalous characteristics). This was done to provide samples with a range in concentrations that could be analyzed for the development of Site-specific screening criteria values for IGW.

Approximately 53 soil boring locations were proposed. Fifty-one soil borings were advanced and continuously sampled utilizing direct-push drilling techniques. Two soil borings in the southeast corner of AOC-09 were completed using a hand auger due to dense vegetation causing impediment to the Geoprobe drilling rig. Soil borings were advanced to target depths ranging from 3 to 15 feet bgs and up to four samples were collected from the unsaturated zone at each location. From the 53 soil borings completed, 74 soil samples were collected for SPLP analysis. Soils were characterized and screened for VOCs utilizing a PID. Results of these field analyses are provided on the soil boring logs included in Appendix E. After collection, samples were preserved, placed on ice, and submitted to the laboratory for analysis. The analytical results are summarized in Appendix E and were analyzed in accordance with NJDEP SPLP Guidance, as presented in Section 3.3

3.2.3 Supplemental Soil Borings

Supplemental soil borings and associated soil sampling was conducted to fill data gaps associated with the spatially weighted averaging statistical evaluation discussed in Section 3.4.5 below. The two primary constituents that required additional data were arsenic and trichloroethene. During October 2016, 29 supplemental soil borings (Figure 4 in Appendix E) were advanced and 53 soil samples were collected to gather additional data. The soil samples were collected at a range of depths to capture the extents of targeted constituents and to supplement existing data. The soil borings were advanced and continuously sampled utilizing direct-push drilling techniques. Borings were typically drilled to 2 to 4 feet bgs and up to two samples were collected from the unsaturated zone at each location. The soil borings were logged for lithology and screened for the presence of VOCs utilizing a PID. Soil samples were collected, preserved, placed on ice, and submitted to the laboratory for analysis under chain-of-custody procedures. Table I provides a list of supplemental soil samples. The soil sample results are presented in Appendix E. Soil boring logs are presented in Appendix E.

3.3 DEVELOPMENT OF APPLICABLE IMPACT TO GROUNDWATER SOIL SCREENING CRITERIA

Several procedures were used to develop a site-specific IGW soil remediation standard, including:

- Soil Cleanup Criteria (SCC), updated 12 May 1999, based on the proposed rule entitled *Cleanup Standards for Contaminated Sites*, N.J.A.C. 7:26D, in effect at the time (February 3, 1992).
- Site-specific Alterative Remedial Soil Remediation Standards (ARS) for IGW based on SPLP data generated from samples collected from the Site, based on the NJDEP guidance document, *Development of Site-Specific Impact to Ground Water Soil Remediation Standards Using the Synthetic Precipitation Leaching Procedure (version 3.0, 2013)*; and

- Soil Screening Levels for IGW (IGWSSL) based on the NJDEP guidance document, *Development of Impact to Ground Water Soil Remediation Standards Using the Soil-Water Partition Equation* ("Default IGWSSL", version 2.0, 2013).

The following sections provide a background on the criteria and how they were applied for the Site to evaluate IGW pathway in accordance with N.J.A.C. 7:26E. A summary of the Site-specific ARS is provided in Table I. ARS forms are provided in Appendix B.

3.3.1 1999 Soil Cleanup Criteria

The soil screening criteria for the Site used in recent years for investigation and remediation has typically been based on the November 2013 default SRS, as a conservative measure. However, the NJDEP's May 1999 SCC could also be applied, in accordance with the NJDEP guidance and provisions. The Revised Remedial Action Workplan (RRAW) was submitted to NJDEP on December 1, 2008, within the six-month phase-in period after to the adoption of the current SRS. The soil remedial action activities conducted for the Site have been conducted under the December 2008 RRAW which was conditionally approved by the NJDEP in their August 14, 2009 comment letter, and subsequently confirmed by the LSRP. Therefore, in accordance with the December 2008 RRAW, a mixture of the May 1999 SCC for organics (PCBs, VOCs and base/neutral extractable organic compounds (B/Ns)), and the default November 2013 IGWSSLs (N.J.A.C. 7:26D) for metals, because there were no metals established as part of the SCC for IGW, are applicable to the Site.

3.3.2 Alternative Remediation Standards Based on SPLP Analysis

Site-specific Alternative Remediation Standards (ARS) were developed utilizing the SPLP sampling data detailed in Section 3.2.2. The Site-specific criteria were developed in accordance with N.J.A.C. 7:26E and NJDEP's *Development of Site-Specific Impact to Ground Water Soil Remediation Standards Using the Synthetic Precipitation Leaching Procedure* guidance document (version 3.0, 2013). Analytical data were evaluated using the NJDEP SPLP Spreadsheet (version 3.1, 2013) with default parameters to develop the ARS. The spreadsheet iteratively calculated solutions utilizing four different methods dependent upon the numerical characteristics of the SPLP sampling results:

Option 1a: All adjusted extractant concentrations are below the leachate criterion. In this instance, the ARS is the same as the highest total soil concentration.

Option 1b: Simple inspection of tabulated results to find highest acceptable ARS. This dictates that if one or more of the extractant concentrations is less than the leachate criterion, then the acceptable ARS is equivalent to the total concentration of the sample with the highest extractant concentration that is less than the leachate criterion.

Option 2: ARS using Site-specific K_d value. If all K_d values for a given set of samples are within an order of magnitude of each other, these values can be averaged and the resulting coefficient substituted into Equation One in the NJDEP SPLP Guidance. This equation can be used to calculate an ARS.

Option 3: Site-specific ARS using linear regression. This method was not utilized.

Spreadsheets containing the parameters and calculations for each individual constituent are included as Appendix F. A summary of the Site-specific ARS is provided in Table II. As outlined above, ARS were computed for seven constituents based on analytical results of SPLP sampling. Details regarding the development of Site-specific ARS for each constituent are presented below. The NJDEP indicated that the development of the ARS was acceptable in their June 21, 2017 Component Review of the Soil RAR Addendum.

3.3.2.1 Arsenic

During the 2016 SPLP sampling event, 17 samples were collected and analyzed for total arsenic. SPLP analysis was conducted on 10 of the 17 samples based on the criteria outlined above. The results of the SPLP analysis were input into the NJDEP SPLP Spreadsheet and field leachate concentrations were calculated. All samples exceeded the Default Leachate Criterion of 3 ug/L. Therefore, options 1a and 1b were not valid and option two was utilized to calculate an ARS of approximately 11 mg/kg. Because this was below the 2013 default IGWSSL of 19 mg/kg, the default value was used for evaluation purposes. The spreadsheet used for calculations is included in Appendix F.

3.3.2.2 Chromium and Hexavalent Chromium

During the 2012 SPLP sampling event, 23 samples were collected to be analyzed for total chromium. SPLP analysis was conducted on 22 of the 23 samples collected. The field leachate concentrations of the 22 samples did not exceed the extractant criterion for chromium of 1,400 ug/L. Option 1a was applied for total chromium and an ARS of 1,540 mg/kg was determined based on the total chromium concentration measured in the 2.5 – 3.0 feet bgs interval in boring TP9-3-203. The spreadsheet used for calculations is included in Appendix F.

It was determined that the total chromium ARS can be applied to hexavalent chromium based on the results of SPLP analysis and linear regression, and supported by post-remediation groundwater trends. SPLP sampling performed for total chromium and hexavalent chromium in 2012 and the field leachate concentrations for hexavalent chromium were non-detect. The 2016 SPLP sampling could not duplicate similar total hexavalent chromium concentrations indicating the potential for degradation due to naturally occurring processes (Appendix E). In addition, hexavalent chromium detections were limited compared to the site-wide total chromium detections, and do not correlate well. The remaining (post-excavation) soil exceedances of total chromium and hexavalent chromium were correlated using the analytical results (presented in Appendix F). Out of 1,120 samples analyzed for total chromium across the Site, 584 samples were also analyzed for hexavalent chromium. To understand the relationship between both constituents, a simple linear regression model was fitted presenting total chromium data on the Y-axis and hexavalent chromium data on the X-axis. The coefficient of determination for the model is 4.7%, which means that 4.7% total variation in hexavalent chromium can be explained by the linear relationship between both constituents; the other 95.3% of the total variation is unexplained by the model. This indicates the majority of the chromium found on Site is trivalent and not hexavalent. Therefore, a separate ARS for was not developed hexavalent chromium and compliance for total

chromium is protective of potential hexavalent chromium detections. This is further supported by chromium and hexavalent chromium detections above the New Jersey Groundwater Quality Standard (NJGWQS) of 70 ug/L in several monitoring wells showing decreasing temporal trends after the Plater Pit # 6 excavation in 2013.

3.3.2.3 Lead

During the 201XX SPLP sampling event, 23 samples were collected to be analyzed for total lead. SPLP analysis was conducted on 20 of the 23 the samples collected. The field leachate concentrations of the 20 samples did not exceed the extractant criterion for lead of 100 ug/L. Option 1a was applied and an ARS of 328 mg/kg was determined based on the total lead concentration measured in the 2.5-3.0 feet bgs interval in boring TP9-3-203. The spreadsheet used for calculations is included in Appendix F.

3.3.2.4 Nickel

During the 2016 SPLP sampling event, 29 samples were collected to be analyzed for total nickel. SPLP analysis was conducted on 18 of the 29 samples collected. Of these, the sample collected from 7.0 – 7.5 feet bgs at boring 268-2R yielded a high extractant concentration of 2,570 ug/L, which was higher than the next highest concentration of 1,850 ug/L. This high extractant concentration was measured despite the fact that the total soil concentration of the 268-2R sample was below the mean for the sample group. Therefore, the sample was determined to be anomalous and discounted from further evaluation. The field leachate concentrations for the remaining 17 samples did not exceed the field leachate criterion. Option 1a was applied and an ARS of 9,200 mg/kg was determined based on the total nickel concentration measured in the 3.3 – 3.8 feet bgs interval in boring 268-2R. The spreadsheet used for calculations is included in Appendix F.

3.3.2.5 Zinc

During the 2012 SPLP sampling event, 22 samples were collected to be analyzed for total zinc. SPLP analysis was conducted on all of the samples collected. The field leachate concentrations of the 22 samples did not exceed the extractant criterion for zinc of 40,000 ug/L. Option 1a was applied and an ARS of 14,200 mg/kg was determined based on the total zinc concentration measured in the 2.5 – 3 feet bgs interval in boring TP-9-202. The spreadsheet used for calculations is included in Appendix F.

3.3.2.6 Benzene

During the 2016 SPLP sampling event, 15 samples were collected and analyzed for total benzene. SPLP analysis was conducted on eight of the 15 samples due to low concentrations and non-detects. The field leachate concentrations of six samples exceeded the Default Leachate Criterion for benzene of 4 ug/L. Option 1b was applied and an ARS of 0.2 mg/kg was determined for the Site. The spreadsheet used for calculations is included in Appendix F.

3.3.2.7 Chlorobenzene

During the 2016 SPLP sampling event, 18 samples were collected and analyzed for total chlorobenzene. SPLP analysis was conducted on 13 of the 18 samples collected. The field leachate concentrations of all samples did not exceed the Default Leachate Criterion for chlorobenzene of 1,000 ug/L. Option 1a was applied and an ARS of 83 mg/kg was determined based on the total chlorobenzene concentration measured in the 8 – 8.5 feet bgs interval in boring B8-4-102. The spreadsheet used for calculations is included in Appendix F.

3.3.2.8 Trichloroethene

During the 2016 SPLP sampling event, 18 samples were collected and analyzed for trichloroethene (TCE). SPLP analysis was completed on four of the 18 samples collected. The field leachate concentrations of one sample (SB-AOC8B-2013-105) exceeded the Default Leachate Criterion for TCE of 20 ug/L. Option 1b was applied and an ARS of 0.13 mg/kg was determined for the Site. The spreadsheet used for calculations is included in Appendix F.

3.3.2.9 Vinyl Chloride

During the 2016 SPLP sampling event, seven samples were collected and analyzed for vinyl chloride (VC). SPLP analysis was completed for three of the seven samples collected. The field leachate concentrations of two samples exceeded the Default Leachate Criterion for VC of 2 ug/L. Option 1b was applied and an ARS of 0.06 mg/kg was determined for the Site. The spreadsheet used for calculations is included in Appendix F.

3.3.3 IGW Site Specific Soil Remediation Standards

Table II presents the applicable screening criteria for IGW for the Site. As detailed in the 2017 Soil RAR Addendum and the November 2017 Response to Comments, the IGWSSSRS pathway is based on the higher of:

- May 1999 Soil Cleanup Criteria - In accordance with the NJDEP regulations, the May 1999 Soil Cleanup Criteria (SCC) can be utilized for five of the IGW specific constituents (benzene, benzo(a)anthracene, benzo(a)pyrene, trichloroethene, and vinyl chloride) at the Site[1]; or
- ARS as determined from the SPLP evaluation for five of the IGW specific constituents (total chromium, lead, nickel, zinc, and chlorobenzene), as allowed by *The Development of Site-Specific Impact to Ground Water Soil Remediation Standards Using the Synthetic Precipitation Leaching Procedure* (version 3.0, 2013). The NJDEP indicated that the development of the ARS was acceptable in their June 21, 2017 Component Review of the Soil RAR Addendum; or
- November 2013 default IGWSSL for arsenic.

[1]The Revised Remedial Action Workplan (RAW) was submitted on December 1, 2008 within the 6-month phase-in period, after to the adoption of the current SRS; therefore, according to NJDEP guidance, these standards can be used to evaluate the IGW pathway.

Henceforth, the Site-specific criteria will be referred to as IGWSSSRS. These values were presented as part of the November 2017 Response to Comments and reviewed by the NJDEP during their December 13, 2017 evaluation.

3.4 APPLICATION OF IGWSSSRS

This section presents the methodology that was used to evaluate compliance with IGWSSSRS in accordance with N.J.A.C. 7:26E and to determine whether additional remedial action was necessary. The following options were used to determine compliance with IGWSSSRS as demonstrated in this section:

- Single-point compliance;
- Use of Site conditions including:
  - Historic Fill
  - Historically Applied Arsenic-Based Pesticides
  - Naturally Occurring Arsenic
  - Immobile Contaminants
- Compliance averaging including:
  - Calculating the arithmetic mean for the data set where there are two or fewer distinct sample values or nine or fewer total sample points
  - 95 percent upper confidence limit (UCL) of the mean
  - Spatially weighted average (e.g., Thiessen polygons)

3.4.1 Step One - Single-Point Comparison to IGWSSSRS

A single-point comparison of sample concentrations to IGWSSSRS was completed to determine which individual locations exceeded the ARS. Based on this comparison, the following compounds were determined to exceed IGWSSSRS in at least one sample location at the Site:

- Arsenic
- Chromium
- Lead
- Nickel
- Zinc
- Benzene
- Benzo(a)pyrene
- Chlorobenzene
- Trichloroethene
- Vinyl Chloride

Benzo(a)anthracene which was originally identified as a COPC for the IGW pathway was determined to not exceed single point compliance following the development of IGWSSSRS. The complete list of sample locations that exceeded IGWSSSRS was included as part of the November 2017 Response to Comments (Appendix H).

3.4.2 Step Two - Historic Fill Evaluation

As identified in the Soil Remedial Action Report (Soil RAR) dated October 17, 2016, historic fill, as defined in the *Historic Fill Material Technical Guidance* (NJDEP, 2013) is present across large portions of the Site, most notably along the southern swale in AOC-12 and AOC-09. Because fill in portions of AOC-09 could have been attributable to facility operations in the 1930's, 1940's and 1950's, only the historic fill mapped by NJDEP along the southern boundary of the Site (Southern Swale) was considered in this analysis (Attachment B in November 2017 Response to Comments (Appendix H). Soil along portions of the Southern Swale was excavated in 2011 to a depth of 2 feet bgs to address concentrations above the New Jersey Residential Direct Contact Soil Remediation Standards; however, some deeper soil samples that exceed IGW Site-specific standards remain.

Based on this analysis, only locations ASO9 and JSO27 had exceedances of the IGWSSSRS that could be attributable to NJDEP mapped historic fill. The results are as follows:

- ASO9: Arsenic (24.5 mg/kg) and lead (2060 J mg/kg) in the 3.5 to 4.0 foot interval were attributable to historic fill, and
- JSO27: Lead (424 mg/kg) in the 0.0 to 0.5 foot interval was attributable to historic fill.

Historic fill material contaminated above applicable soil remediation standards (either by assumption or sampling) will not be removed. Institutional and engineering controls have been established as part of the remedial action pursuant to N.J.A.C. 7:26E-5.4 and to N.J.A.C. 7:26C-7. Additionally, because the constituents associated with this fill have been identified in groundwater at the Site, these constituents have been included in the Sitewide groundwater Classification Exception Area (CEA). This evaluation was presented in the November Response to Comments letter presented to the NJDEP, no additional comments were received. The remaining IGWSSSRS locations were further evaluated as described below.

3.4.3 Step Three – Arsenic Evaluation

Arsenic is a metalloid and occurs naturally in many minerals, usually in combination with sulfur and metals, but also as a pure elemental crystal. Accordingly, it is commonly found in many rock formations, soils, groundwater and surface water. In addition, arsenic also has a wide range of industrial uses, the primary use of metallic arsenic is in alloys of lead (e.g., in car batteries and pesticides).

Arsenic concentrations in soil above the IGWSSSRS have been identified throughout the Site and are potentially related to Historically Applied Pesticides (HAPs), historical plant processes, and naturally occurring arsenic. Based on aerial photography from 1931, the Site appears to have been used for orchards; therefore, it is possible that lead arsenate pesticides could have been used at the Site in a wide-spread area. However, a review of historical documents identified arsenic as a constituent of potential use in plant processes. Therefore, the following evaluation of arsenic attributable to HAPs and as naturally occurring were not considered for areas of the Site where past industrial processes were undertaken. In addition, the evaluation of naturally occurring arsenic focused on areas beyond both historical industrial processes and HAPs.

3.4.3.1 Historically Applied Pesticides

The Soil Remedial Investigation Report (Soil RIR) dated June 19, 2014 identified that prior to manufacturing operations in the 1930's, an orchard was present on-site. The orchard was likely present across the Site (based on patterns and disturbances seen in the aerial photo of the northwest corner and east side of the Site) but had diminished in areal extent by the time of the 1938 aerial photograph. The Soil RIR identified that:

> "Arsenic in soil at the Site was investigated (along with lead) as part of an investigation into historical application of lead arsenate pesticides for agriculture, specifically orchards. The ratio of arsenic to lead in soil samples was evaluated as a means of identifying potential contamination associated with historic pesticide use. A percentage of samples (less than 30 percent) reported ratios of arsenic to lead indicative of lead arsenate pesticide use.
>
> In addition, arsenic concentrations in shallow (0 – 0.5 ft bgs) and deeper (0.5 – 1 ft bgs) surface soil samples [along Parkway Avenue] exhibit arsenic concentrations that decrease with depth."

In the NJDEP comment letter dated April 23, 2015, the NJDEP agreed that arsenic may be present in some AOCs:

> "The former presence of orchards and the detection of the highest levels of arsenic in surface soils in some AOCs is a clear indication of historic pesticide impact rather than DAP [Diffuse Anthropogenic Pollution] and must be addressed as a discharge with the soil remediation standards applied."

A review of historical plant processes identified arsenic as a constituent of potential use, therefore evaluation of arsenic as a HAP was not considered for areas of the Site where past industrial processes were undertaken. This does not include soils along Parkway Avenue where operations related to manufacturing did not take place. Accordingly, the shallow soil samples collected along Parkway Avenue, where arsenic was detected above 19 mg/kg were considered attributable to HAPs use and are not addressed further for the IGW pathway in accordance with the NJDEP's *Historically Applied Pesticide Site Technical Guidance* (version 2.0, August 2016). In addition, institutional and engineering controls have been established as part of the remedial action pursuant to N.J.A.C. 7:26E-5.4 and to N.J.A.C. 7:26C-7. Additionally, because the constituents associated with HAPs have been identified in groundwater at the Site, these constituents have been included in the Sitewide groundwater CEA. This evaluation was presented in the November Response to Comments, no additional comments were received. Supporting documents from the Response to Comments are presented in Appendix H.

3.4.3.2 Naturally Occurring Arsenic

Naturally occurring arsenic occurs in many minerals, usually in combination with sulfur and metals and is commonly found in many rock formations, soils, groundwater and surface water. The New Jersey Geological and Water Survey (NJGS) publication (Appendix G) reported arsenic was identified at elevated concentrations (130 mg/kg) in bedrock from a nearby rock core (collected along Scotch road). This suggests that certain portions of the rock in the area have elevated arsenic concentrations. The

article theorizes that both hematite and pyrite may be sources of the arsenic in bedrock, with localized pyrite mineral concentrations between 3,000 to 40,000 mg/kg.

Post-excavation analytical results from IGW excavations in the northeast corner of AOC-9 (summarized in Section 4.3) have shown arsenic concentrations ranging from 3.34 to 518 mg/kg. The arsenic concentrations generally increase with depth approaching bedrock. The results suggested that the elevated arsenic levels identified in the northeast corner of AOC-9 are the result of naturally occurring minerals from the weathered bedrock in the area, rather than from the historical facility operations (Appendix J). The following presents the lines of evidence to support this basis:

- No Processes in the Northeast Corner of AOC-9: The 1991 Chemical Inventory for the Site indicated the use of arsenic in batteries (maintenance use) and 10,10'-Oxybis-Phenoxarsine (Department 4 extruder area). However, there are no documented processes in the northeast corner of AOC-9. Rather, the excavation of arsenic impacted soils is beyond the roadway and parking lot towards the former pond, where the soil appeared to be native, with no signs of refuse fill or other plant operations. During excavation, observations indicated red-brown clayey soil down to what appeared to be highly weathered red siltstone to shale bedrock.

- Bedrock Arsenic Analysis: As the excavation of the IGW areas in the northeast corner of AOC-09 progressed, elevated arsenic results were measured in the confirmation samples and did not correspond to an apparent fill material or other Facility related issue. Rather, the soil appeared to be a reddish residual rock material. Four samples of rock were taken from loose siltstone/sandstone fragments in the area to evaluate whether the bedrock was a potential contributor to elevated arsenic levels in the area. The results are summarized below for whole rock, broken rock, and crushed rock samples.

Sample Name	Sample Type	Sample Date	Arsenic Concentration (mg/kg)
Rock 1	Rock Sample Whole	3/20/2018	5.20
Rock 1	Rock Sample Broken	3/20/2018	2.92
Rock 1A	Rock Sample Crushed	3/23/2018	2.80
Rock 2	Rock Sample Whole	3/20/2018	14.1
Rock 2	Rock Sample Broken	3/20/2018	11.3
Rock 2A	Rock Sample Crushed	3/23/2018	2.50
Rock 3	Rock Sample Whole	3/20/2018	25.6
Rock 3	Rock Sample Broken	3/20/2018	8.47

Rock 3A	Rock Sample Crushed	3/23/2018	7.40
Rock 4	Rock Sample Whole	3/20/2018	21
Rock 4	Rock Sample Broken	3/20/2018	20.5
Rock 4A	Rock Sample Crushed	3/23/2018	78.2

Although these samples may not represent the rock immediately below this area (because these were loose fragments), the results indicate elevated levels up to 78.2 mg/kg. These results confirm that the bedrock in the area contains elevated arsenic levels above the default IGWSRS of 19 mg/kg.

- Presence of Elevated Arsenic in Soil in the Vicinity: Data that the NJDEP collected from numerous sites in New Jersey indicate that elevated levels of arsenic and several other naturally occurring metals. The following information indicated site locations with elevated naturally-occurring arsenic levels in Mercer County (taken from "Selected Sites with Potentially Naturally Occurring Elevated Background Arsenic" maintained by Kevin Schick, NJDEP, last updated 09/12/2017). The Bristol-Myers Squibb Site (Merrill Lynch Corporate Center Development) is located less than 2.2 miles from west of the Ewing Site. This originally undeveloped parcel exhibits similar arsenic levels including increasing concentrations with depth and the highest concentrations immediately above bedrock, which is consistent with the pattern observed at Ewing and correlates to the observations of arsenic from the area bedrock. The site is a 429 acre predominantly farmed parcel of land in the southern part of Hopewell Township in Mercer County. The property is situated between Interstate 95 and Washington Crossing – Pennington Road (Route 546) to the north and south, and Scotch Road and the Conrail Delaware & Bound Brook Railroad to the west and east. The site was used for dairy farming from the late 1800's until the mid-1950's when purchased by Bristol-Myers Squibb. Since that time, leased farming activities have occurred at the site. An extensive Preliminary Assessment/Site Investigation (PA/SI) conducted at the site has identified elevated arsenic concentrations site-wide and a trend of increasing concentrations with depth and maximum levels typically identified in the soils immediately above bedrock (6-8 ft depth). A total of 295 soil samples have been collected and the arsenic data are presented in the table below. The maximum concentration of arsenic detected was 359 mg/kg (BKG05-6.0-6.5 ft, value verified by a duplicate sample).

Bristol-Myers Squibb Hopewell Twp. Site

Depth (feet bgs)	Number of Samples	Average Arsenic Conc. (mg/kg)	Frequency Exceeding RDCSCC (20 mg/kg)
0-2	165	11.4	13%
2-4	60	14.7	23%
4-6	38	26.5	50%

6-8	32	56.2*	44%
	Total n = 295	Site Ave. = 18.9	Site Freq. = 23%

* Note – Removal of potential 359 mg/kg outlier results in a mean of 46.4 mg/kg

The arsenic observations at the Bristol-Myers Squibb site are consistent with the pattern observed at Ewing and correlates to the observations of arsenic from the area bedrock.

- Presence of Elevated Arsenic in Bedrock in the Area: As identified in NJGS publication (Appendix G), arsenic was identified at elevated concentrations (130 mg/kg) in bedrock from a nearby rock core. This suggests that certain portions of the rock in the area have elevated arsenic concentrations. The article theorizes that both hematite and pyrite may be sources of the arsenic in bedrock, with localized pyrite mineral concentrations between 3,000 to 40,000 mg/kg. Red-brown clayey soil, indicative of residual soil from shale rock weathering, has been observed in the AOC-9 excavations in the northeast corner. This area is coincident with a shallow subcrop/outcrop of bedrock that is thought to be associated with a fault thrust line. Although the bedrock in the NJGS references a deeper formation (Lockatong) to the one observed on-site (Stockton), extensive faulting and apparent geothermal mineralization (such as calcite and pyrite) has been documented at the Site. This secondary mineralization may be the source of arsenic.

- Elevated Concentrations of Arsenic in Groundwater in the Area: Based on conversations with the NJDEP, they indicated the NJGS was conducting an evaluation of arsenic in private water supply wells across New Jersey. Data collected from 66 home wells between September 2002 and April 2014 was summarized to show that 3.0% of the home wells in the 2-mile by 2-mile area near the Site have arsenic concentrations exceeding the 5 ug/L Maximum Contaminant Level (MCL).

The lines of evidence, detailed above, were used to conclude that in the northeast corner of AOC-09, the arsenic detections in soil are not related to past Facility operations and HAPs, but rather naturally occurring mineral from the weathering of bedrock. Although approximately 78 tons of soil were removed to initially address potential IGW issues in this area, the arsenic is naturally occurring and does not need further remediation. For the purposes of this evaluation, this determination only applies to the soils in the northeast corner of AOC-09, as the other areas of the Site have been addressed on an area-specific basis.

3.4.4 Step Four - Immobile Contaminant Evaluation

As identified in the *Guidance for the Evaluation of Immobile Chemicals for the Impact to Ground Water Pathway* (NJDEP, 2008; "Immobile Contaminants Guidance"), benzo(a)anthracene, benzo(a)pyrene, and lead were identified as immobile in the Soil RAR Addendum. This evaluation, as detailed below, included a location-specific determination where soil samples that included these constituents exceeded IGWSSSRS. The locations where the immobile contaminants do not need to be addressed based on the analysis are identified on the Table 4 in Appendix H; the remaining locations are addressed further below. The revised immobile contaminants evaluation was in the Haley & Aldrich *Response to*

Comments on Soil Remedial Action Report Addendum Response to Comments dated July 20, 2017, dated 17 November 2017 (hereafter referred to as November 2017 Response to Comments) and deemed acceptable by NJDEP in an email dated 27 March 2018 (Appendix C).

Benzo(a)anthracene which was originally identified as a COPC for the IGW pathway was determined to not exceed single point compliance following the development of IGWSSSRS. Therefore, benzo(a)anthracene was excluded from the immobile contaminants evaluation hereafter.

3.4.4.1 Benzo(a)pyrene

One sample location for benzo(a)pyrene exceeded IGWSSSRS. At this location, FSO-24, a clean 2-foot buffer existed between the exceeding sample and the water table. This location therefore met the requirements for immobile contaminant as defined in the Immobile Contaminant Guidance, and accordingly, no further IGW pathway evaluation for this constituent was necessary.

3.4.4.2 Lead

Lead was also considered in the immobile contaminant evaluation. For lead exceedances, the following evaluations steps were taken to determine if a location qualified for immobile contaminant determination;

- If a sample was below IGWSSSRS at that location or nearby location (within 50-feet) below the exceedance and two feet above the water table, lead was considered immobile and not carried further in this analysis.
- If there was no clean sample below the exceedance or the next sample is saturated, then local groundwater conditions were evaluated (NJDEP 2009, *Site Soil and Ground Water Analytical Data Evaluation)*.
  - If there was no groundwater impact, then no further evaluation of the IGW pathway was required, and justification will be provided herein.
  - If there was groundwater impact in the area or down-gradient of the exceedance, then further evaluation was required.

Table III contains the results of the lead evaluation. Locations that were not determined to be considered under the immobile contaminant determination were evaluated as described in the following sections.

3.4.5 Step Five - Functional Area Analysis

For remaining locations that exceeded IGWSSSRS (“hot spots”), functional areas were created to determine constituent concentrations for IGW evaluation using the mean if fewer than nine samples were contained within the functional area, the 95% upper confidence limit (UCL) if greater than nine samples were contained within the functional area, or Spatially Weighted averaging (SWA) if the location did not meet IGWSSSRS using one of the first two methods. Functional areas were created such that they extended 100 feet parallel to groundwater flow and only as far perpendicular to groundwater

flow as the closest non-exceeding ("delineating") samples distributed radially around the exceeding point. Samples were further divided into surface and subsurface zones with regard to the water table.

If local delineation was not sufficient (e.g., isolated locations with few to no delineating points within 150 feet), functional area analysis was not considered appropriate. If local delineation was sufficient, functional area compliance evaluation was considered appropriate and undertaken as described below. Details of whether exceeding points were successfully delineated and how they were evaluated were reported in Table IV of the November 2017 Response to Comments (Appendix H). Additionally, maps showing functional areas that were analyzed for each constituent were provided in the submittal. These supporting documents are presented in Appendix H.

3.4.5.1 Vertical Definition of Functional Area

The analytical data used in the IGW evaluation presented below is a compilation of previously reported Site Investigation activities, previously reported soil remedial action activities, and the recent supplemental investigation activities presented above.

For IGW screening, the analytical data for the Site were segregated into surface soil and subsurface soil data sets as follows:

- Samples with a bottom sampling depth of 2 feet above water table were included as surface soil.
- Samples that were collected from 2 feet above water table to the water table were included as subsurface soil.

The following procedures were applied when using the analytical data:

- For locations with multiple sample depths, the maximum sample concentration was used to represent the location for a conservative compliance evaluation, except where noted below.
- For locations with re-samples at a previously sampled depth:
  - If both sample results are detected, then the latest sample concentration is used;
  - If both samples are non-detect (ND), then the minimum reporting limit (RL) is used;
  - For samples with the original sample detect and resample ND, the lowest of both values is used.
- For ND values with missing RLs, an appropriate RL value was considered depending on the dataset distribution, as detailed in Section 3.4.5.2.
- Results qualified as estimated ("J" qualifier) were included.
- For samples in which analyte concentrations are detected outside the calibration range, and the samples are diluted and reanalyzed, the re-analysis results for that compound were used in the evaluation.

3.4.5.2 Use of Historical Data

A significant portion of Site samples utilized for the compliance evaluation represented older data, and high RL values were reported due to multiple older lab analysis methods used for the older data.

Additionally, a high percentage of RLs were reported exceeding the IGWSSSRS. Due to the multiple, older laboratory analysis methods, the detection limits were typically not representative of actual conditions.

For results reported as non-detect, but the RLs were elevated due to the above reasons, the imputation was done by calculating an appropriate RL based on the Site-wide RL data distribution. The raw data statistics of Site-wide RL data was presented in the May 2017 RAR Addendum. As shown in the table, a significant percentage of the RL values exceeded the ARS. Due to the multiple, older laboratory analysis methods, the detection limits were typically not representative.

Recent sampling in the vicinity of previously collected samples utilizing current analytical methods confirm that these older analytical methods with high RLs do not represent true sample concentrations in those areas. Therefore, a more appropriate RL value was calculated by statistically analyzing the Site-wide RL data. The statistical analysis was presented in the May 2017 RAR Addendum. Depending on the evaluation, the older, high RL values were imputed with 75 percentile values for more conservative evaluation in most cases, and median values in very few cases. This process was presented in the November Response to Comments which was reviewed and commented on by the NJDEP. No issues were expressed by the NJDEP.

3.4.5.3 Mean

If a functional area contained fewer than nine discrete sample locations, the mean concentration of all the samples was collected, as specified in the 2012 NJDEP *Technical Guidance for the Attainment of Remediation Standards and Site-Specific Criteria* ("Attainment/Compliance Guidance"). One functional area for nickel in the subsurface demonstrated that the mean concentration was below the IGWSSSRS. Results were included in the November 2017 Response to Comments, these supporting documents are presented in Appendix H.

3.4.5.4 95% Upper Confidence Limit

If a functional area contained equal to or greater than nine discrete sample locations, the 95% UCL of the mean for all sample concentrations was calculated, as specified in the Attainment/Compliance Guidance. Two functional areas, one for chromium and one for zinc in the surface zone, demonstrated that the 95% UCL was below the IGWSSSRS utilizing this method. Results were included in the November 2017 Response to Comments, these supporting documents are presented in Appendix H.

3.4.5.5 Spatially Weighted Averaging

The potential for IGW was further evaluated using the SWA method for the points that did not meet IGWSSSRS by one of the two methods outlined above. The following sections describe the functional area analysis via SWA and relevant inputs and outputs of the analysis.

3.4.5.5.1. Thiessen Polygons

Thiessen polygons were developed around each sample within a functional area for both surface and subsurface intervals. Thiessen polygons are polygons whose boundaries define the area that is closest

to each point relative to all other points; they are mathematically defined by the perpendicular bisectors of the lines between all points. The area of each Thiessen polygon was calculated using ArcGIS and the constituent concentration at the sample location within the polygon was assumed to equal the concentration throughout the polygon. For each constituent, the SWA within the functional area was calculated as follows:

- The constituent concentration in each polygon was multiplied by the fraction of its area relative to the total area of the functional area.
- The resultant products were summed for all samples within each functional area to derive a weighted average concentration for each constituent.

3.4.5.5.2. Concentration Data Assigned to Polygons

For detected values, the following procedures were used to determine the concentration term of a sample location:

- If multiple sample depths existed at a location, the highest concentration within that depth interval (surface/subsurface) was used to represent the concentration of that location for a conservative compliance evaluation.
- If a resample was collected at a single depth, then only that depth interval was replaced with the new sample concentration and the maximum concentration in that location was used.
- For historic samples with depth intervals that were longer than 6 inches (e.g. 2-foot sample interval), the sample results were replaced as follows:
  - If the recent sample was collected utilizing a 6-inch sample interval and was collected in the same zone as the original longer interval sample, then the recent sample concentration was used.
  - If multiple recent samples with 6-inch intervals were collected in that zone, then the maximum concentration was used.
- For results reported as non-detect, the RL was used to represent the non-detect value.
- For results reported as non-detected with RL values exceeding ARS or with missing RLs, an appropriate RL value was considered depending on the dataset distribution as described in Section 3.4.5.2 above.

3.4.5.5.3. Spatially Weighted Averaging Results

A compound was determined to not exceed criteria for IGW if the SWA did not exceed the IGWSSSRS. Documentation of SWA calculations was provided in the November 2017 Response to Comments. The supporting documentation associated with the SWA is presented in Appendix H. The analysis indicated the majority of the areas passed analysis, except 34 samples at 31 locations (some borings had failures for multiple constituents) did not pass or were not sufficiently delineated for functional area analysis by SWA. These were distributed by constituent as follows and on Table IV:

- 14 arsenic sample locations
- Nine lead sample locations (one is a later resample of an existing boring location)
- Five chromium sample locations (two are collocated with nickel functional areas)

- Four nickel sample locations (two are collocated with chromium functional areas)
- Two TCE sample locations

For those locations that did not pass or were not sufficiently delineated, excavation activities were conducted as outlined in the following sections. The revised SWA was detailed in the Haley & Aldrich *Response to Comments on Soil Remedial Action Report Addendum Response to Comments dated July 20, 2017*, dated 17 November 2017 (hereafter referred to as November 2017 Response to Comments) and the NJDEP indicated that they were in agreement with the approach and recommendations for remediation an email dated 27 March 2018 (Appendix C).

4. Remediation Activities and Results

As stated in Section 3 and summarized in Table IV, 31 soil sample locations representing 34 samples were identified as requiring further remediation via excavation to address the IGW pathway. The proposed excavation depth was determined based on the availability of deeper, clean samples in the same borehole as the exceeding sample:

- If an exceeding sample also had a deeper, clean sample, the depth of the clean sample was used; or
- If a clean sample was not present between the exceeding sample and the water table, the depth to the water table was used as the excavation depth.

Based on local delineation (i.e. supplemental soil borings described in Section 3.2.3), sample locations were assigned to Group A or Group B and were to be addressed as follows:

- Locations where a Thiessen Polygon drives the determination that the functional area exceeds IGWSSSRS:
  - Group A Areas: If the entire Thiessen polygon was smaller than 650 cubic yards, then it was excavated and no confirmation samples were collected per Attainment/Compliance Guidance. Alternatively, additional post-excavation sidewall confirmation samples can be collected to further reduce the area size/volume.
  - Group B* Areas: If the Thiessen Polygon is larger than 650 cubic yards, a smaller area, approximately five-feet by five-feet in size, was excavated and additional confirmation samples were collected at a rate of two samples (shallow and deep) per sidewall, corresponding to depths of the sample exceedance and biased to potential impacts, if present. Note that since the bottom depth was defined as a clean sample or the water table, bottom samples were not collected.
  - Group B Areas: Locations where the local delineation was insufficient to conduct the functional analysis, a smaller area, approximately five-feet by five-feet in size, was excavated and additional confirmation samples were collected at a rate of two samples (shallow and deep) per sidewall, corresponding to depths of the sample exceedance and biased to potential impacts, if present. Note that since the bottom depth is defined as a clean sample or the water table, bottom samples were not collected except in one instance for a shallow excavation in the vicinity of the arsenic excavations in the north-eastern portion of AOC-09.

Figures 3 and 4 show the proposed excavation areas and for Group A and Group B excavations, respectively. Table I provides a list of post-excavation soil samples. Table IX summarizes the approximate excavation volumes. In excavations where the Thiessen Polygon was not fully removed, the results of the confirmation samples were initially directly compared to the IGWSSSRS (single point compliance).

If sample concentrations were above IGWSSSRS, the post-excavation samples were evaluated using the 75 percent/10x Procedure as detailed in the Attainment/Compliance Guidance, whereby:

- If 75 percent of all post-remedial samples are below the applicable soil remediation standard and
- None of the remaining samples exceed the applicable standard by an order of magnitude (10x), the remedial action is considered to have met the remedial objective and no further action is necessary.

If the results did not demonstrate the location was below IGWSSSRS, then further functional area evaluation was conducted. If the results continued to demonstrate that the constituent concentration at the location was above IGWSSSRS, then additional excavation was conducted and further confirmation samples were collected. The results of the excavation and soil sampling activities are summarized below.

4.1 GROUP A EXCAVATIONS

Locations were designated to fall within Group A are defined in Table IV. To reduce the size of some of the larger Group A areas, five-foot by five-foot excavations were conducted and sidewall samples were collected. Sidewall samples, if applicable, were collected at a rate of two samples per sidewall. One sample was collected at the depth of the original hot spot, and one additional sample was collected from a depth determined in the field based on potential impacts, such as PID readings, odors or staining. The outcome of each Group A excavation is summarized in Table V and discussed below. Bottom samples were not collected since excavations were extended to the next sample concentration below IGWSSSRS or the water table, which ever occurred first. The excavations were backfilled when completed with clean fill and the excavated material was stockpiled and sent offsite for disposal. A total of 1,389 cu yd, representing 1,955 tons, of soil were removed and disposed off-site for the Group A excavations. Details of the work are provided below and bills of lading are included as Appendix I. Sample locations are shown in Appendix J. Analytical results are summarized in Table VI and included in Appendix K. Photographs of the excavation are presented in Appendix L. Revised SWA results and calculations, where applicable, are presented in Appendix M.

4.1.1 IGW-EX-A01

The following provides a brief summary of the excavation:

Area:	IGW-EX-A01
AOC:	AOC-10
Date Excavated:	23 February 2018
Targeted Location:	B8-4-100
Constituent of Concern:	Lead at 1,810 mg/kg at 8.5 ft bgs
Target Depth:	Water table at approximately 9.1 ft bgs
Final Size:	100 sq ft by 9.1 ft deep (34 cu yd)
IGW Determination Method:	Re-analysis of Spatially Weighted Average

Discussion:

A total of eight samples were submitted to the laboratory for analysis. The highest lead concentration reported from the post-excavation side wall samples was 1,370 mg/kg in the shallow sample at B8-4-100-A. The shallow samples at locations B8-4-100-B and B8-

4-100-C also exceeded the lead IGWSSSRS with concentrations of 340 mg/kg and 372 mg/kg, respectively. The deep sample location at B8-4-100-D exceeded lead IGWSSRS with a concentration of 561 mg/kg. The remaining four samples all had concentrations below IGWSSSRS.

Following the completion of the initial excavation and post-excavation sampling, the SWA concentration for the functional area was re-calculated using the higher of the two concentrations from each of the remaining post-excavation sample locations (285 mg/kg), along with the other concentrations in the functional area. The area represented by the excavation area was assigned the highest laboratory-reported RL for the samples collected for post-excavation. The revised SWA was calculated below the IGWSSSRS. Consequently, no further excavation was necessary, and the excavation was backfilled on 16 March 2018.

4.1.2 IGW-EX-A02

The following provides a brief summary of the excavation:

Area:	IGW-EX-A02
AOC:	AOC-08B
Date Excavated:	22 February to 2 March 2018
Targeted Location:	B8-6
Constituent of Concern:	Lead at 1,200 mg/kg at 8.0 ft bgs
Target Depth:	Water table at approximately 9.7 ft bgs
Final Size:	2,236 sq ft by 10.3 ft deep (853 cu yd) (with IGW-EX-A03)
IGW Determination Method:	Removal of the entire Thiessen Polygon

Discussion:

Following the initial excavation, two soil samples per side wall were collected at 8 and 9 ft bgs. A total of eight samples was submitted to the laboratory. The highest concentration reported from the post-excavation samples at IGW-EX-A02 was 22,000 mg/kg in the deep sample at IGW-EX-A02-B. All but two of the remaining samples exceeded IGWSSSRS, results in the SWA for the functional area above IGWSSSRS. Given this finding the entire Thiessen polygon for B8-6 was removed. The excavation was expanded past the extent of the Thiessen polygon to encompass IGW-EX-A03 as presented below.

During the expanded excavation, the concrete footer of one of the former treatment tanks was uncovered (Photo Log in Appendix L). The concrete was treated as a non-transmissive medium and left in place when the excavation was backfilled with clean material. Backfilling was completed in stages between 12 and 15 March 2018.

4.1.3 IGW-EX-A03

The following provides a brief summary of the excavation:

Area:	IGW-EX-A03
AOC:	AOC-08B
Date Excavated:	22 February 2018
Targeted Location:	B8-6-103
Constituent of Concern:	Lead at 7,510 mg/kg at 6.5 ft bgs
Target Depth:	Water table at approximately 10.6 ft bgs
Final Size:	2,236 sq ft by 10.3 ft deep (853 cu yd) (with IGW-EX-A02)
IGW Determination Method:	Originally 75%/10x, but incorporated into IGW-EX-A02 excavation

Discussion:

Post-excavation samples were below IGWSSSRS criteria with the exception of two samples. This concentration distribution allowed for evaluation using the 75%/10x method. The excavation was found to meet the 75%/10X determination; however, the boundaries of the IGW-EX-A03 were entirely circumscribed by the Thiessen polygon containing B8-6 for IGW-EX-A02. Therefore, the soil around IGW-EX-A03 was also removed during the expanded IGW-EX-A02 excavation.

4.1.4 IGW-EX-A04

The following provides a brief summary of the excavation:

Area:	IGW-EX-04
AOC:	AOC-08B
Date Excavated:	22 February 2018
Targeted Location:	B8-8-2-102
Constituent of Concern:	TCE at 13.0 mg/kg at 10.0 ft bgs
Target Depth:	Water table at approximately 13.0 ft bgs
Final Size:	110 sq ft by 11.2 ft deep (46 cu yd)
IGW Determination Method:	75%/10x

Discussion:

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected between 4 and 8 ft bgs (the depth range of the highest PID readings), while the deep samples were collected at 10 ft bgs (the depth of the original exceeding sample). Eight samples were submitted to the laboratory for analysis. Reported concentrations from the eight samples collected were non-detect, although the RLs were elevated, exceeding the IGWSSSRS of 1 mg/kg (1.3 mg/kg and 6.2 mg/kg at IGW-EX-A04-A and IGW-EX-A04-D, respectively). However, the excavation passes the 75%/10x determination utilizing the RLs in the calculation. Backfilling of the excavation was completed on 14 March 2018.

4.1.5 IGW-EX-A05

The following provides a brief summary of the excavation:

Area:	IGW-EX-A05
AOC:	AOC-07B
Date Excavated:	27 February 2018
Targeted Location:	SB-7-SO-7
Constituent of Concern:	Chromium at 8,100 mg/kg at 2.0 ft bgs
Target Depth:	Clean sample at 4.0 ft bgs
Final Size:	55 sq ft by 4.8 ft deep (10 cu yd)
IGW Determination Method:	Confirmation samples below IGWSSSRS criteria

Discussion:

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected at 2 ft bgs (the depth of the original exceeding sample), while the deeper samples were collected at 3.5 ft bgs. A total of eight samples were submitted to the laboratory for analysis. Concentrations reported by the laboratory for the eight samples were below IGWSSSRS. Therefore, no further excavation was necessary. Backfilling of the excavation was completed on 9 March 2018.

4.1.6 IGW-EX-A06

The following provides a brief summary of the excavation:

Area:	IGW-EX-A06
AOC:	AOC-08B
Date Excavated:	21 February 2018
Targeted Location:	SB-8-SO-14-100
Constituent of Concern:	Lead at 4,770 mg//kg at 8.3 ft bgs
Target Depth:	Water table at approximately 13 ft bgs
Final Size:	643 sq ft by 15.9 ft deep (379 cu yd)
IGW Determination Method:	Excavation of the entire Thiessen Polygon

Discussion:

Since the entire polygon was removed, no confirmation samples were required. Backfilling was completed on 14 and 15 March 2018.

4.1.7 IGW-EX-A07

The following provides a brief summary of the excavation:

Area:	IGW-EX-A07
AOC:	AOC-10
Date Excavated:	26 February 2018
Targeted Location:	BS-10-SO-7-103
Constituent of Concern:	Chromium at 4,500 mg/kg at 6.0 ft bgs
Target Depth:	Water table at approximately 8.8 ft bgs
Final Size:	100 sq ft by 8.8 ft deep (33 cu yd)
IGW Determination Method:	Excavation of the entire Thiessen Polygon

Discussion:

Since the entire polygon was removed, no confirmation samples were required. Backfilling was completed on 16 March 2018.

4.1.8 IGW-EX-A08

The following provides a brief summary of the excavation:

Area:	IGW-EX-A08
AOC:	AOC-01C
Date Excavated:	26 February 2018
Targeted Location:	SB-F10
Constituent of Concern:	TCE at 31 mg/kg at 2.0 ft bgs
Target Depth:	Water table at approximately 13.1 ft,
Final Size:	75 sq ft by 12.7 ft deep (36 cu yd)
IGW Determination Method:	75%/10x

Discussion:

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected at 2 ft bgs (the depth of the original exceeding sample), while the deep samples were collected at 10 ft bgs. A total of eight samples was submitted to the laboratory for analysis. The shallow sample at IGW-EX-A08-C and the deep one at IGW-EX-A08 exceeded IGWSSSRS at concentrations of 1.4 mg/kg and 6.6 mg/kg, respectively. The remaining samples did not exceed IGWSSSRS. Therefore, the excavation passed the 75%/10x determination and no further excavation was required. Backfilling was completed on 14 March 2018.

4.2 GROUP B EXCAVATIONS

The distribution of Group B excavations is shown in Figure 4. Group B locations were further subdivided into two groups:

- Locations were designated to fall within Group B if local delineation was insufficient to conduct functional area analysis.
- Locations were designated to fall within Group B* if a Thiessen polygon drove the determination that the functional area exceeded IGWSSSRS and the excavation volume of the individual Thiessen polygon containing the exceeding sample location was greater than 650 cubic yards.

All Group B and Group B* excavations began with 5-ft by 5-ft excavation areas and sidewall sampling at a rate of two samples per sidewall corresponding to the depth of the sample exceedance and potential impacts observed in the field. Sidewall samples were used to determine whether the “hot spot” was completely excavated, via comparison to IGWSSSRS, evaluation of the 75%/10x procedure, or could pass SWA with the new sample concentrations. If the initial samples failed, the excavation was extended in 5-ft increments in the direction(s) of any sidewall sample(s) that exceeded IGWSSSRS evaluation, until the extent of impacts was reached. The outcome of each Group B excavation is summarized in Table VII and a total of 2,926 tons were removed for off-site disposal. Excavations were backfilled with clean fill and the excavated material was stockpiled and sent offsite for disposal. Details are provided below and

bills of lading are included as Appendix I. Sample locations are shown in Appendix J. Analytical results are summarized in Table VIII and included in Appendix K. Photographs of the excavation are presented in Appendix L. Revised SWA results and calculations are presented in Appendix M.

4.2.1 IGW-EX-B01

The following provides a brief summary of the excavation:

Area:	IGW-EX-B01
AOC:	AOC-01C
Date Excavated:	12 March 2018
Targeted Location:	109-1
Constituent of Concern:	Chromium at 3,840 mg/kg at 7.8 ft bgs
Target Depth:	Water table at approximately 14.0 ft bgs
Final Size:	76 sq ft by 11.3 ft deep (32 cu yd)
IGW Determination Method:	Confirmation samples were all below IGWSSSRS

Discussion:

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 7.8 ft bgs (the depth of the original exceeding sample) and the deep samples were collected from pervasive gray mottled material at 11 ft bgs. A total of eight samples were submitted to the laboratory for analysis. Post-excavation sample analytical results were below the IGWSSSRS for the samples collected. Therefore, no further excavation was necessary. The excavation was backfilled with clean fill on 28 March 2018.

4.2.2 IGW-EX-B02

The following provides a brief summary of the excavation:

Area:	IGW-EX-B02
AOC:	AOC-01C
Date Excavated:	13 March 2018
Targeted Location:	268-2
Constituent of Concern:	Nickel at 9,940 mg/kg at 1.5 ft bgs
Target Depth:	Water table at approximately 15.7 ft bgs
Final Size:	77 sq ft by 12.9 ft deep (37 cu yd)
IGW Determination Method:	Confirmation samples were all below IGWSSSRS

Discussion:

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 1.5 ft bgs and the deeper samples were collected from 3 ft bgs from a dark seam in the soil column, which corresponded to the elevated nickel from soil boring 268-2. A total of eight samples were submitted to the laboratory for analysis. Post-excavation sample analytical results were below the IGWSSSRS criteria for the eight post-excavation samples collected. Therefore, no further excavation was necessary. The excavation was backfilled on 23 March 2018.

4.2.3 IGW-EX-B03

The following provides a brief summary of the excavation:

Area:	IGW-EX-B03
AOC:	AOC-01C
Date Excavated:	23 February 2018
Targeted Location:	B6-201
Constituent of Concern:	Arsenic at 76.2 mg/kg at 1.0 ft bgs
Target Depth:	Water table at approximately 10.0 ft bgs
Final Size:	81 sq ft by 8.0 ft deep (24 cu yd)
IGW Determination Method:	Re-analysis of Spatially Weighted Average

Discussion:

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 1 ft bgs (the depth of the original exceeding sample) and the deep samples were collected from 7.5 ft bgs to target gray staining observed during the excavation. A total of eight samples was submitted to the laboratory for analysis. The IGWSSSRS for arsenic at the Site is default 19 mg/kg. Concentrations for seven of the eight post-excavation samples exceeded the IGWSSSRS; however, the concentrations were less than 25 mg/kg, whereas the original exceeding sample had a concentration of 76 mg/kg. Because of the lower concentrations in the post-excavation samples, the improved sample density, and the excavation of the most impacted soils and replacement with clean fill, the functional area containing these samples passed SWA with an average arsenic concentration of 14.5 mg/kg. Therefore, no further excavation was necessary. Backfilling was completed on 9 March 2018.

4.2.4 IGW-EX-B08 and IGW-EX-B09

The following provides a brief summary of the excavation:

Area:	IGW-EX-B08 and IGW-EX-B09
AOC:	AOC-07A
Date Excavated:	5 March to 26 March 2018
Targeted Location:	ISO6-102 and ISO6-103
Constituent of Concern:	Arsenic up to 71.2 mg/kg at 1.5 ft bgs
Target Depth:	Clean samples at 3 ft bgs
Final Size:	361 sq ft by 3.1 ft deep (42 cu yd)
IGW Determination Method:	Re-analysis of Spatially Weighted Average

Discussion:

Following the initial excavation of IGW-EX-B08, two soil samples were collected per side wall. The shallow samples were collected from 1.5 ft bgs (the depth of the original exceeding sample) and the deeper samples were collected from 2 or 2.5 ft bgs. A total of eight samples was submitted to the laboratory for analysis. Four of the eight samples (one sample from each sidewall of the excavation) exceeded the IGWSSSRS criteria for arsenic. The excavation was expanded twice during the excavation activities. The post-excavation samples from the excavation expansion either did not exceed 19 mg/kg or were sufficient for the re-analysis of the SWA.

IGW-EX-B09 is immediately adjacent to IGW-EX-B08 and was also initiated on 5 March as a 5-ft by 5-ft excavation to 3 ft bgs. Eight samples were submitted to the laboratory for analysis, of which three exceeded IGWSSSRS. The excavation was expanded twice during the excavation activities. The post-excavation samples from the excavation expansion either did not exceed 19 mg/kg or were sufficient for the re-analysis of the SWA.

A SWA was applied to the functional area containing both IGW-EX-B08 and IGW-EX-B09. The highest laboratory-reported RLs observed in post-excavation samples was used to represent the concentrations of the excavation backfill in the SWA. The functional area was below the IGWSRS of 19 mg/kg with an average concentration of 15.3 mg/kg. Therefore, no further excavation was necessary. The IGW-EX-B08 and IGW-EX-B09 excavations were backfilled on 5 April 2018.

4.2.5 IGW-EX-B10

The following provides a brief summary of the excavation:

Area:	IGW-EX-B10
AOC:	AOC-12
Date Excavated:	14 March 2018
Targeted Location:	MW-22
Constituent of Concern:	Arsenic at 91.0 mg/kg
Target Depth:	Clean sample at 8.5 ft bgs
Final Size:	29 sq ft by 8.2 ft deep (9 cu yd)
IGW Determination Method:	Re-analysis of Spatially Weighted Average

Discussion:

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 4 ft bgs (the depth of the original exceeding sample) and the deeper samples were collected from 6 ft bgs. A total of eight samples were submitted to the laboratory for analysis. The highest post-excavation concentration was 53.4 mg/kg in the shallow sample at IGW-EX-10-B. The shallow sample at location IGW-EX-10-C also exceeded 19 mg/kg with a concentration of 47.9 mg/kg. The deep sample location at IGW-EX-10-A exceeded 19 mg/kg with a concentration of 22.1 mg/kg. The remaining five samples had concentrations below 19 mg/kg.

Following completion of the excavation and utilizing the newly collected delineation samples, the SWA concentration for the functional area was calculated. The SWA was calculated using the higher of the two concentrations from each of the post-excavation side wall locations, was 12.4 mg/kg. The highest laboratory-reported RLs for the samples collected in the post-excavation samples was applied to the excavation backfill area for the calculation. No further excavation was necessary, and the excavation was backfilled on 28 March 2018.

As part of the excavation activities, monitoring well MW-22 was abandoned by a licensed New Jersey driller (Summit Drilling, 0001595). The well was backfilled with grout to grade and then the well was removed as part of the excavation activities. Well abandonment documentation is provided in Appendix N.

4.2.6 IGW-EX-B11

The following provides a brief summary of the excavation:

Area:	IGW-EX-B11
AOC:	AOC-01C
Date Excavated:	12 March 2018
Targeted Location:	PL05-02
Constituent of Concern:	Nickel at 12,500 mg/kg at 4.0 ft bgs
Target Depth:	Water table at approximately 10.0 ft bgs
Final Size:	63 sq ft by 10.1 ft deep (24 cu yd)
IGW Determination Method:	Confirmation samples below IGWSSSRS

Discussion:

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 4 ft bgs (the depth of the original exceeding sample) and the deeper samples were collected from 5.5 ft bgs. A total of eight samples were submitted to the laboratory for analysis. The excavation was completed on 12 March 2018. Post-excavation sample concentrations were below the IGWSSSRS for nickel. Therefore, no further excavation was necessary. The excavation was backfilled on 28 March 2018.

4.2.7 IGW-EX-B12

The following provides a brief summary of the excavation:

Area:	IGW-EX-B12
AOC:	AOC-08B
Date Excavated:	27 February 2018
Targeted Location:	SB-8-SO-11
Constituent of Concern:	Lead at 4,300 mg/lg at 8.0 ft bgs
Target Depth:	Water table at approximately 9.3 ft bgs
Final Size:	72 sq ft by 8.6 ft deep (23 cu yd)
IGW Determination Method:	Re-analysis of Spatially Weighted Average

Discussion:

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 8 ft bgs (the depth of the original exceeding sample) and the deeper samples were collected from 8.5 ft bgs to target the interval of gray material with the highest PID readings. A total of eight samples were submitted to the laboratory for analysis. The highest post-excavation sample concentration was 954 mg/kg in the shallow sample at IGW-EX-B12-B. The deep sample at location IGW-EX-B12-B also exceeded IGWSSSRS with a concentration of 523 mg/kg. The shallow and deep sample locations at IGW-EX-B12-C exceeded IGWSSSRS with concentrations of 570 mg/kg and 475 mg/kg, respectively. The remaining four samples had concentrations below IGWSSSRS.

Following the completion of the excavation, the SWA concentration for the functional area was 201 mg/kg. The highest laboratory-reported RLs for the samples collected in post-excavation samples was used as the concentration of the excavation backfill for calculation purposes. No further excavation was necessary, and the excavation was backfilled on 28 March.

4.2.8 IGW-EX-B13

The following provides a brief summary of the excavation:

Area:	IGW-EX-B13
AOC:	AOC-09
Date Excavated:	12 March 2018
Targeted Location:	SB-9-SO-4-A
Constituent of Concern:	Arsenic at 241 mg/kg at 0.5 ft bgs
Target Depth:	Water table at approximately 9.6 ft bgs
Final Size:	44 sq ft by 7.1 ft deep (12 cu yd)
IGW Determination Method:	75%/10x Determination

Discussion:

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected at 0.5 ft bgs (the depth of the original exceeding sample), while the deep samples were collected at 2.5 ft bgs. A total of eight samples was submitted to the laboratory for analysis. The excavation was completed on 12 March 2018. The shallow sample at IGW-EX-B13-B exceeded 19 mg/kg at a concentration of 34.2 mg/kg. The remaining samples did not exceed 19 mg/kg. Therefore, the excavation passed utilizing the 75%/10x method and no further excavation was necessary. The excavation backfill was completed on 16 March 2018.

4.2.9 IGW-EX-B15 and IGW-EX-B21

The following provides a brief summary of the excavation:

Area:	IGW-EX-B15 and IGW-EX-B21
AOC:	AOC-10
Date Excavated:	6 March 2018
Targeted Location:	SB-10-SO-209 and SB-AOC10-2013-109

Constituent of Concern:	Lead up to 769 mg/kg at 9 to 10 ft bgs
Target Depth:	Water table at approximately 10 ft bgs
Final Size:	Collectively, 795 sq ft by approximately 10.0 ft deep (283 cu yd)
IGW Determination Method:	Re-analysis of Spatially Weighted Average

Discussion:

For SB-10-SO-209, following the excavation, two soil samples per side wall were collected. The shallow samples were collected at 9 ft bgs (the depth of the original exceeding sample), while the deep samples were collected at 10 ft bgs to target the zones of paint-like material. A total of eight samples was submitted to the laboratory for analysis. Four of the eight samples exceeded IGWSSSRS for lead. The deep sample at IGW-EX-B15-B returned the highest concentration, 642 mg/kg. The shallow samples at IGW-EX-B15-A and IGW-EX-B15-C also exceeded IGWSSSRS, with concentrations of 506 mg/kg and 614 mg/kg, respectively. The deep sample collected at IGW-EX-B15-C had a concentration of 424 mg/kg. The remaining four samples had concentrations within IGWSSSRS.

For SB-AOC10-2013-109, following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 8.5 ft bgs (the depth of the original exceeding sample) and the deeper samples were collected from 9 ft bgs, biased toward the presence of a paint-like material. A total of eight samples was submitted to the laboratory for analysis. Concentrations for five of the eight post-excavation samples exceeded IGWSSSRS, with a maximum concentration of 709 mg/kg at the deep IGW-EX-B21-A location. Therefore, the excavation was expanded several times

Following the completion of the excavation, the SWA concentration was re-evaluated for the functional area containing IGW-EX-B15 and IGW-EX-B21 was 226 mg/kg. The SWA was calculated using the highest laboratory RLs for the post-excavation sample. No further excavation was necessary, and backfilling was completed on 17 April 2018.

4.2.10 IGW-EX-B20

The following provides a brief summary of the excavation:

Area:	IGW-EX-B20
AOC:	AOC-10
Date Excavated:	5 March 2018
Targeted Location:	SB-AOC10-2013-106
Constituent of Concern:	Lead at 1,400 mg/kg at 5.5 ft bgs
Target Depth:	Water table at approximately 8.2 ft bgs
Final Size:	63 sq ft by 8.2 ft deep (17 cu yd)
IGW Determination Method:	Confirmation samples below IGWSSSRS

Discussion:

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 4.5 ft bgs (the depth of the original exceeding sample) and the deeper samples were collected from 5.5 ft bgs, biased toward a dark stained soil zone. A total of eight samples was submitted to the laboratory for analysis. Post-

excavation sample concentrations were below the IGWSSSRS. Therefore, no further excavation was necessary. The excavation was backfilled on 16 March 2018.

4.2.11 IGW-EX-B22

The following provides a brief summary of the excavation:

Area:	IGW-EX-B22
AOC:	AOC-10
Date Completed:	12 March to 10 April 2018
Targeted Location:	SB-AOC10-2013-115
Constituent of Concern:	Chromium at 10,800 mg/kg and Nickel at 24,800 mg/kg at 5.0 ft bgs
Target Depth:	Water table at approximately 7.9 ft
Final Size:	5319 sq ft by 5.8 ft deep (1143 cu yd)
IGW Determination Method:	Re-analysis of Spatially Weighted Average

Discussion:

During the excavation, Haley & Aldrich noted dark stained, sludge-like soils and black liquid with a gasoline-like odor seeping into the excavation at approximately 6.5 to 7 ft bgs. A field-test did not identify the presence of a non-aqueous phase liquid. The black color dissipated by the next morning in the excavation and was determined to likely be due to anaerobic bacterial processes.

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 3 ft bgs and the deep samples were collected from 5 ft bgs (the depth of the original exceeding sample). Eight samples were submitted to the laboratory for analysis. Four of the eight samples (comprising the deeper samples at each location) exceeded IGWSSSRS for both chromium and nickel, with the highest concentration of each constituent (24,200 mg/kg and 40,100 mg/kg, respectively) measured in the deep sample at IGW-EX-B22C. All of the exceeding samples, except chromium in the IGW-EX-B22-D deep location, exceeded IGWSSSRS by an order of magnitude. Therefore, the excavation was expanded several times with samples collected from test pits to address the elevated chromium and nickel results. Figure 6 shows the location of the test pits during the expansion of IGW-EX-B22 excavation.

The soil confirmation sample results were utilized to re-evaluate the SWA for IGW-EX-B22 and IGW-EX-A07. The highest concentration from each test pit/post excavation samples was used in the calculation, and the highest laboratory-reported RLs for the samples collected was utilized as the concentration of the excavation backfill. The functional area passed with an average concentration of 1,108 mg/kg for chromium and 3,194 mg/kg for nickel. Therefore, no further excavation was necessary.

Soils from the upper three feet of the excavation were staged separately and sampling indicated that these soils were not impacted above IGWSSSRS. For confirmation, three soil samples were collected from the staged soils and submitted to the laboratory for

analysis. No exceedances were noted. The excavation was backfilled with clean fill and the soils from the top 3 ft of the excavation between 18 and 24 April 2018.

4.2.12 IGW-EX-B23

The following provides a brief summary of the excavation:

Area:	IGW-EX-B23
AOC:	AOC-01C
Date Completed:	13 to 19 March 2018
Targeted Location:	SR-1
Constituent of Concern:	Chromium at 5,900 mg/kg at 1.0 ft bgs
Target Depth:	Water table at approximately 16.1 ft bgs
Final Size:	107 sq ft by 10.4 ft deep (41 cu yd)
IGW Determination Method:	Confirmation samples below IGWSSSRS

Discussion:

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 1 ft bgs (the depth of the original exceeding sample), while the deeper samples were collected from 2.5 ft bgs. Eight samples were submitted to the laboratory for analysis. The shallow sample from IGW-EX-B23-B exceeded IGWSSSRS, with a concentration of 12,200 mg/kg. The other post-excavation samples did not exceed IGWSSSRS; however, because IGW-EX-B23-B exceeded by an order of magnitude, the 75%/10x method was not applicable. Therefore, the excavation was expanded on 19 March 2018 by approximately 5 feet to the west to remove the additional impacted soil. Two samples per side wall were collected from the expansion (six samples in total) and submitted to the laboratory for analysis. The post-excavation samples from the expanded excavation had concentrations below IGWSSSRS. Therefore, no further excavation was necessary. The excavation was backfilled on 5 April 2018.

4.3 NATURALLY OCCURRING ARSENIC DETERMINATION IN NORTHEAST CORNER OF AOC-09

During Group B excavation activities, arsenic concentrations were highly sporadic with 38 out of 65 samples exceeded in an area where previous facility related activities were not documented. To determine the source of the arsenic concentrations, a background analysis was conducted. This analysis resulted in the lines of evidence detailed in Section 3.4.3 and summarized as follows;

- No Processes in the Northeast Corner of AOC-9 in historic record;
- Presence of Elevated Arsenic in Soil in the Vicinity (Bristol-Myers Squibb, Hopewell Township Site);
- Presence of Elevated Arsenic in Bedrock in the Area
- Due to close proximity and common constituent of concern, arsenic, the following areas were grouped together: IGW-EX-B04, IGW-EX-B05, IGW-EX-B06, IGW-EX-B07, IGW-EX-B16, IGW-EX-B17, IGW-EX-B18, and IGW-EX-B19 (Figure 5).

4.3.1 IGW-EX-B04, IGW-EX-B05, and IGW-EX-B06

The following provides a brief summary of the excavation:

Area:	IGW-EX-B04, IGW-EX-B05, and IGW-EX-B06
AOC:	AOC-09
Date Excavated:	13 March to 20 March 2018
Targeted Location:	B9-2-100, B9-2-101, and B9-2-103
Constituent of Concern:	Arsenic up to 407 mg/kg at 0.5 ft bgs
Target Depth:	Clean samples at 3.0 ft bgs
Final Size:	341 sq ft by 3.2 ft deep (40 cu yd)
IGW Determination Method:	Naturally Occurring Arsenic Determination for AOC-09

Discussion:

Because of their proximity to each other, the excavations for soil borings B9-2-100, B9-2-101, and B9-2-103 were merged. Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 0.5 ft bgs (the depth of the original exceeding samples) and the deeper samples were collected from 2.5 ft bgs. A total of 16 samples were submitted to the laboratory from the initial excavation. From the initial data collection, 13 of the 16 samples had concentrations exceeding the IGWSRS of 19 mg/kg. Therefore, the excavation was expanded in the directions of the highest concentrations to the north, west, and south.

Additional sidewall sample pairs were collected on the north and west sidewalls. The post excavation sample results indicated that the excavation could be limited to 3 ft bgs, based on confirmation samples below 19 mg/kg at a depth of 3 ft bgs, which provided vertical delineation for the bottom of the excavation. One additional sample was collected from the floor of the excavation near the northeast corner of the excavation (Appendix J). These five additional samples were submitted to the laboratory for analysis. The excavation floor sample did not exceed 19 mg/kg; however, the other four sidewall samples exceeded. These results lead to the further evaluation of arsenic in the area, which identified that arsenic in bedrock was the likely source of the elevated arsenic concentrations. Consequently, no further excavation was conducted for this area. The excavation was backfilled on 9 May 2018

4.3.2 IGW-EX-B07, IGW-EX-B17, IGW-EX-B18, and IGW-EX-B19

The following provides a brief summary of the excavation:

Area:	IGW-EX-B
AOC:	AOC-09
Date Excavated:	8 and 9 March 2018
Targeted Location:	HSO17-A, SB-AOC09-2013-104, SB-AOC09-2013-104-EX1A, and SB-AOC09-2013-105
Constituent of Concern:	Arsenic up to 220 mg/kg at 0.5 ft bgs
Target Depth:	Water table at approximately 2.7 ft bgs
Final Size:	Collectively, 197 sq ft by approximately 2.4 ft deep (17 cu yd)

IGW Determination Method: Naturally Occurring Arsenic Determination for AOC-09

Discussion:

These were discrete excavations within the same functional area. Following each excavation, two soil samples per side wall were collected. The shallow samples were collected from 0.5 ft bgs (the depth of the original exceeding sample) and the deeper samples were collected from 1 ft bgs. Eight samples per excavation (for a total of 32 samples inside the functional area) were submitted to the laboratory for analysis. 26 confirmation samples exceeded the default IGWSRS of 19 mg/kg concentration. As a result of the bedrock arsenic evaluation discussed above, no further excavation was conducted for these areas. They were backfilled on 9 May 2018.

4.3.3 IGW-EX-B14

The following provides a brief summary of the excavation:

Area:	IGW-EX-B14
AOC:	AOC-09
Date Excavated:	6 March to 20 March 2018
Targeted Location:	SB-9-SO-8-a-EX1C
Constituent of Concern:	Arsenic at 250 mg/kg at 0.5 ft bgs
Target Depth:	Water table at approximately 2.0 ft
Final Size:	266 sq ft by 1.8 ft deep (18 cu yd)
IGW Determination Method:	Naturally Occurring Arsenic Determination for AOC-09

Discussion:

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected from 0.5 ft bgs (the depth of the original exceeding sample) and the deeper samples were collected from 1 ft bgs. A total of eight samples was submitted to the laboratory for analysis. Concentrations for the eight post-excavation were all above the IGWSRS of 19 mg/kg, with a maximum concentration of 448 mg/kg at the deep IGW-EX-B14-B location. Therefore, the excavation was expanded approximately 5 ft in each direction on 20 March 2018, and an additional eight post-excavation side wall samples were collected and submitted to the laboratory for analysis.

Four of the eight samples exceeded 19 mg/kg, in one sample on each side of the excavation. Therefore, the excavation was expanded to the north, west, and south (by 5 ft in each direction) on 20 March 2018, and an additional six post-excavation side wall samples were collected and submitted to the laboratory for analysis. Of these eight samples, four exceeded 19 mg/kg. The highest concentration, 443 mg/kg, was measured at the deep location at IGW-EX-B14-H. The shallow IGW-EX-B14-H sample also exceeded 19 mg/kg with a concentration of 123 mg/kg, and the shallow and deep samples from IGW-EX-B14-F had concentrations of 333 mg/kg and 374 mg/kg, respectively.

As a result of the bedrock arsenic evaluation discussed above, no further excavation was conducted for these areas. The area was backfilled on 9 May 2018.

4.3.4 IGW-EX-B16

The following provides a brief summary of the excavation:

Area:	IGW-EX-B16
AOC:	AOC-09
Date Excavated:	8 March 2018
Targeted Location:	SB-AOC09-2013-102
Constituent of Concern:	Arsenic at 325 mg/kg at 0.5 ft bgs
Target Depth:	Water table at approximately 4.5 ft bgs
Final Size:	36.74 sq ft by 1.8 ft deep (2.5 cu yd)
IGW Determination Method:	Naturally Occurring Arsenic Determination for AOC-09

Discussion:

Following the excavation, two soil samples per side wall were collected. The shallow samples were collected at 0.5 ft bgs (the depth of the original exceeding sample), while the deep samples were collected at 2 ft bgs. A total of eight samples were submitted to the laboratory for analysis. The shallow samples at IGW-B16-B and IGW-B16-C had concentrations of 166 mg/kg and 22.8 mg/kg, respectively. The remaining samples did not exceed IGWSSSRS.

As a result of the bedrock arsenic evaluation discussed above, no further excavation was conducted for these areas. Backfilling was completed on 16 March 2018.

5. Wetland Permit, Waste Disposal and Clean Fill

5.1 WETLAND PERMIT AND RESTORATION

In September 2017, NJDEP Department of Land Use Regulation (DLUR) signed off on the successful restoration of the areas of wetlands, open water and riparian zones affected by the 2011 remediation activities conduced in Gold Run Pond and portions of the Southern Swale (Section 1.4). Because the nature of the IGW excavations were the same as those activities previously conducted, DLUR approved the Group A/B excavation work under the previous Freshwater Wetlands General Permit No. 4 – 1102-06-0001.1 FWW 110001 with the understanding that restoration, reporting and monitoring requirements would apply for the work. DLUR correspondence is provided in Appendix P.

Supplemental restoration was conducted after the additional IGW excavations which impacted portions of the previously restored wetland transition area and riparian zone (approximately 1,872 square feet). Approximately 0.5-1 ft of top soil was applied to the areas followed by seeding with a Native Riparian Zone Mix consisting of warm season grasses and wildflowers suitable for establishing the area.

5.2 WASTE DISPOSAL

The Clean Earth facility provided an off-site disposal acceptance letter on 3 April 2018 and 5 April 2018, for the soils generated during IGW excavation activities.

The excavation resulted in an additional 4,881 tons of soil removed to address:

- Group A - A total of 1,955 tons of soil were removed and disposed off-site, and
- Group B – A total of 2,926 tons of soil were removed and disposed off-site.

This material was hauled from the Site to the disposal facility from 4 April 2018 to 10 May 2018. Related bills of lading are included as Appendix I.

5.3 CLEAN FILL

Backfilling operations began on March 9th, 2018 following the determination that areas were clean following excavation and post excavation assessment using clean fill from Hanson Quarry located in Newton, Pennsylvania analytical testing included in Appendix I. Approximately 2,509 Tons of #114317 screening fill was imported to the Site, staged, and placed in each excavation without field density or compaction testing. Backfilling was augmented using surficial soils that were deemed reusable based upon testing as described in Section 4.2.11. Additionally, as described in Section 5.1 above, topsoil was placed within wetland transition areas to restore the area to pre-excavation conditions.

6. Data Usability Assessment

6.1 QUALITY ASSURANCE PROJECT PLAN

In accordance with N.J.A.C 7:26E-1.6 (the Technical Requirements for Site Remediation) a Quality Assurance Project Plan (QAPP) that complies with N.J.A.C. 7:26E-2.2 and with the Quality Assurance Project Plan Technical Guidance (version 1.0, 2014) was previously prepared.

6.2 USABILITY REVIEW

A usability review as described in the procedures and guidelines presented in the Quality Assurance Project Plan Technical Guidance (version 1.0, 2014) was performed on data generated after May 2017, as required by the NJDEP. The review has determined the data to be usable for its intended purposes. A summary of the review is presented in Appendix O. The summary includes an examination of any issues identified during the review.

6.3 DATA QUALITY ASSESSMENT

The Data Usability Review, conducted per NJDEP's DQA/DUE Technical Guidance dated April 2014, has determined the data to be usable for its intended purposes. A Usability Review was completed for the data, as described in the procedures and guidelines presented in the QAPP Technical Guidance (version 1.0,2014). The laboratory reports are provided as Appendix K.

6.4 ELECTRONIC DATA DELIVERABLES

Samples were shipped under chain-of-custody to Alpha Analytical, Inc., located in Westborough, Massachusetts (NJDEP Certification MA935). Complete copies of the laboratory reports, including the quality assurance/quality control data, are provided as Appendix K. The Electronic Data Deliverables (EDD) in NJDEP-required format subsequent to the Electronic Data Submittal Application (EDSA) check will be email to the NJDEP.

7. Conclusions

This Revised Addendum to the October 2016 Soil RAR presented findings and conclusions based on supplemental IGW pathway evaluations and excavations conducted in accordance with the requirements of N.J.A.C. 7:26E for the Site. The original Soil RAR submittal in October 2016 summarized remedial actions conducted at the Site prior to 1990 through November 2013, which included excavation of targeted hot spot areas: Gold Run Pond, Southern Swale, AOC-09 PCB area, and Plater Pits #5 and #6. A brief summary of the previous remedial investigation is presented in Section 1.4 and represents over 18,000 tons of soil that have been remediated and removed from the Site, prior to the phase of work described herein.

The potential for soil IGW was initially assessed utilizing a conservative approach and the default IGWSSLs in the GwRIR dated May 2016, which identified nine constituents that could potentially pose an IGW above Class II-A Groundwater Quality Standards for arsenic, lead, nickel, benzene, chlorobenzene, trichloroethene, vinyl chloride, benzo(a)anthracene, and benzo(a)pyrene. These constituents were identified as being potentially significant based on an AOC-by-AOC approach. As detailed in the GwRIR, due to the presence of groundwater impacts at the Site, a Site-wide CEA was proposed which was a continuation of the CEA established for the Parkway Avenue sewers on the north side of the Site that the Naval Air Warfare Center implemented and connected to the Roller Bearing Corporation CEA to the south. As such, on-Site and downgradient potable use of groundwater is not permitted. In their review of the May 2016 GwRIR, NJDEP indicated their desire to include chromium and zinc in this evaluation, as such these constituents were included for further evaluation. Through communications and correspondence, NJDEP indicated that soil IGW evaluations should be documented as part of soil remediation activities for the Site, as provided herein.

Based on extensive analysis, detailed herein, 34 samples at 31 locations (some borings had failures for multiple constituents) did not pass or were not sufficiently delineated for functional area analysis by SWA. These were distributed by constituent as follows:

- 14 arsenic sample locations
- Nine lead sample locations (one is a later resample of an existing boring location)
- Five chromium sample locations (two are collocated with nickel functional areas)
- Four nickel sample locations (two are collocated with chromium functional areas)
- Two TCE sample locations

For those locations that did not pass or were not sufficiently delineated, excavation activities were conducted, as detailed in Section 4. Based on local delineation (described in Section 3.4.5), sample locations were assigned to Group A or Group B (or B*), based on their characterization, and were excavated to either their polygon boundaries or acceptable post-excavation sample results. The depth of the excavation was based on availability of deeper, clean samples in the same borehole as the exceeding sample or water table. The excavation resulted in an additional 4,881 tons of soil removed to address:

- Group A - A total of 1,389 cu yd, representing 1,955 tons, of soil were removed and disposed off-site, and
- Group B – A total of 2,926 tons were removed and disposed off-site.

A total of 4,881 tons of soil were removed to address the potential IGW issues, resulting in a sum total of over 23,000 tons of soil removed for the Site for remediation purposes. Based on the analysis and extensive remediation efforts, no further soil remedial action is required. The Site conditions remain protective of human health and the environment under a presumed non-residential Site use, as stipulated in the Deed Notice, and groundwater use limitation in the CEA.

References

1. New Jersey Department of Environmental Protection, Guidance for the Evaluation of Immobile Chemicals for the Impact to Ground Water Pathway (2008).

2. New Jersey Department of Environmental Protection, Chromium Soil Cleanup Criteria (NJDEP, 2008, revised 2010)

3. New Jersey Department of Environmental Protection, Site Soil and Ground Water Analytical Data Evaluation (2009)

4. New Jersey Department of Environmental Protection, Technical Guidance for the Attainment of Remediation Standards and Site-Specific Criteria, version 1.0 (2012).

5. State of New Jersey, Technical Requirements for Site Remediation, N.J.A.C. 7:26E (2012).

6. New Jersey Department of Environmental Protection, Historic Fill Material Technical Guidance, version 2.0 (2013)

7. New Jersey Department of Environmental Protection, Development of Site-Specific Impact to Ground Water Soil Remediation Standards Using the Synthetic Precipitation Leaching Procedure (2013)

8. New Jersey Department of Environmental Protection, Development of Site-Specific Impact to Ground Water Soil Remediation Standards Using the Synthetic Precipitation Leaching Procedure (2013)

9. State of New Jersey, Site Remediation Reform Act, N.J.A.C. 58:10C (2013).

10. New Jersey Department of Environmental Protection, Data Quality Assessment and Data Usability Evaluation Technical Guidance, version 1.0 (2014)

11. New Jersey Department of Environmental Protection, Quality Assurance Project Plan Technical Guidance, version 1.0 (2014).

12. New Jersey Department of Environmental Protection, Technical Guidance for Site Investigation of Soil, Remedial Investigation of Soil, and Remedial Action Verification Sampling for Soil. (2015)

13. New Jersey Department of Environmental Protection, Historically Applied Pesticides Site Technical Guidance (2016)

TABLES

TABLE I
SOIL SAMPLE SUMMARY
EWING TOWNSHIP INDUSTRIAL LAND
EWING , NEW JERSEY

AOC	Location	Date	Sample Name	Depth	Excavation Status	Matrix	Sample Type	Inorganic Compounds	PCBs	Pesticides	Semi-Volatile Organic Compounds	SPLP Inorganics	SPLP Volatile Organic Compounds	Volatile Organic Compounds	EPH	Other
SPLP Samples																
AOC-03	B3-4-200	4/23/2012	2351-042312-1540	9.5 - 10 (ft)	Not Excavated	Soil	N	17					17	47		2
AOC-03	B3-4-200	4/23/2012	2351-042312-1530	0.5 - 1 (ft)	Not Excavated	Soil	N	17					17	47		2
AOC-03	B6-201	4/23/2012	2351-042312-1400	9.5 - 10 (ft)	Not Excavated	Soil	N	17					17	47		2
AOC-03	B6-201	4/23/2012	2351-042312-1350	0.5 - 1 (ft)	Excavated	Soil	N	17					17	47		2
AOC-02	GS08-200	4/24/2012	2351-042412-1510	11.5 - 12 (ft)	Not Excavated	Soil	N	17					17	47		2
AOC-02	GS08-200	4/24/2012	2351-042412-1500	0.5 - 1 (ft)	Not Excavated	Soil	N	17					17	47		2
AOC-01C	PL05-200	4/25/2012	2351-042512-1605	2.5 - 3 (ft)	Not Excavated	Soil	N	17			52		17	47		3
AOC-01C	PL05-200	4/25/2012	2351-042512-1600	0.5 - 1 (ft)	Not Excavated	Soil	N	17			52		17	47		3
AOC-01C	PL05-201	4/25/2012	2351-042512-1535	2.5 - 3 (ft)	Not Excavated	Soil	N	17			52		17	47		3
AOC-01C	PL05-201	4/25/2012	2351-042512-1530	0.5 - 1 (ft)	Not Excavated	Soil	N	17			52		17	47		3
AOC-01C	PL05-202	4/25/2012	2351-042512-1510	2.5 - 3 (ft)	Excavated	Soil	N	17			52		17	47		3
AOC-01C	PL05-202	4/25/2012	2351-042512-1500	0.5 - 1 (ft)	Excavated	Soil	N	17			52		17	47		3
AOC-09	B9-16-200	4/25/2012	2351-042512-1140	5 - 5.5 (ft)	Not Excavated	Soil	N	17			52		17	47		3
AOC-09	B9-16-200	4/25/2012	2351-042512-1120	0 - 0.5 (ft)	Not Excavated	Soil	N	17			52		17	47		3
AOC-09	B9-16-200	4/25/2012	2351-042512-0003	5 - 5.5 (ft)	Not Excavated	Soil	FD	17			52					3
AOC-11	SB-11-SO-200	4/25/2012	2351-042512-1305	3.5 - 4 (ft)	Not Excavated	Soil	N	17	9		52		17			3
AOC-11	SB-11-SO-200	4/25/2012	2351-042512-1300	0 - 0.5 (ft)	Not Excavated	Soil	N	17	9		52		17			3
AOC-11	SB-11-SO-201	4/25/2012	2351-042512-1320	3.5 - 4 (ft)	Not Excavated	Soil	N	17	9		52		17			3
AOC-11	SB-11-SO-201	4/25/2012	2351-042512-1315	0 - 0.5 (ft)	Not Excavated	Soil	N	17	9		52		17			3
AOC-09	TP9-2-202	4/26/2012	2351-042612-1355	9 - 9.5 (ft)	Not Excavated	Soil	N	17	9		52		17	47		2
AOC-09	TP9-2-202	4/26/2012	2351-042612-1350	2.5 - 3 (ft)	Not Excavated	Soil	N	17	9		52		17	47		2
AOC-09	TP9-3-203	4/27/2012	2351-042712-1250	9 - 9.5 (ft)	Not Excavated	Soil	N	17	9		52		17	47		3
AOC-09	TP9-3-203	4/27/2012	2351-042712-1240	2.5 - 3 (ft)	Not Excavated	Soil	N	17	9		52		17	47		3
AOC-09	TP9-3-203	4/27/2012	2351-042712-0003	9 - 9.5 (ft)	Not Excavated	Soil	FD	17	9		52			47		3
AOC-01C	268-2R	9/12/2016	4479-091216-1530	7.5 - 8 (ft)	Not Excavated	Soil	N									12
AOC-01C	268-2R	9/12/2016	4479-091216-1524	7 - 7.5 (ft)	Not Excavated	Soil	N	1				1				1
AOC-01C	268-2R	9/12/2016	4479-091216-1522	6.5 - 7 (ft)	Not Excavated	Soil	N	1				1				1
AOC-01C	268-2R	9/12/2016	4479-091216-1520	3.3 - 3.8 (ft)	Not Excavated	Soil	N	1				1				1
AOC-01C	PL07-01R	9/12/2016	PL07-01R	4.5 - 5 (ft)	Not Excavated	Soil	N	1				1				1
AOC-01C	PL07-107R	9/12/2016	PL07-107R	0.5 - 1 (ft)	Not Excavated	Soil	N	1				1				1
AOC-01C	SB-AOC1C-2013-107R	9/12/2016	SB-AOC1C-2013-107R	0.5 - 1 (ft)	Not Excavated	Soil	N							1		1
AOC-01C	SB-C8R	9/12/2016	SB-C8R	2 - 2.5 (ft)	Not Excavated	Soil	N						1	1		1
AOC-01C	SB-F10R	9/12/2016	SB-F10R	1.5 - 2 (ft)	Excavated	Soil	N						1	1		1
AOC-01C	SB-F9R	9/12/2016	SB-F9R	9.5 - 10 (ft)	Not Excavated	Soil	N							1		12
AOC-07A	B7-3R	9/13/2016	4479-091316-1120	10 - 10.5 (ft)	Not Excavated	Soil	N	1				1				1
AOC-07A	B7-3R	9/13/2016	4479-091316-1115	3.5 - 4 (ft)	Not Excavated	Soil	N	1				1				1
AOC-07A	ISO5-100R	9/13/2016	4479-091316-0930	2.5 - 3 (ft)	Not Excavated	Soil	N						1	1		1
AOC-07A	ISO5-100R	9/13/2016	4479-091316-0915	1 - 1.5 (ft)	Not Excavated	Soil	N	1				1		1		1
AOC-07A	ISO5-102R	9/13/2016	4479-091316-0940	1 - 1.5 (ft)	Not Excavated	Soil	N	1						1		1
AOC-07A	ISO5-103R	9/13/2016	4479-091316-0850	2.5 - 3 (ft)	Not Excavated	Soil	N						1	1		1
AOC-07A	ISO6-103R	9/13/2016	4479-091316-1010	1 - 1.5 (ft)	Excavated	Soil	N	1				1		1		1
AOC-07A	ISO6R	9/13/2016	4479-091316-1225	1 - 1.5 (ft)	Excavated	Soil	N	2				1		1		1
AOC-07A	ISO7-103R	9/13/2016	4479-091316-1200	2.5 - 3 (ft)	Not Excavated	Soil	N	1				1				1
AOC-07B	B7-5R	9/13/2016	4479-091316-1525	2.5 - 3 (ft)	Not Excavated	Soil	N							1		1
AOC-07B	SB-7-SO-3-101R	9/13/2016	4479-091316-1410	3.5 - 4 (ft)	Not Excavated	Soil	N						1	1		1
AOC-07B	SB-7-SO-3R	9/13/2016	4479-091316-1435	8 - 10 (ft)	Not Excavated	Soil	N							1		1
AOC-07B	SB-7-SO-6R	9/13/2016	4479-091316-1500	2 - 4 (ft)	Not Excavated	Soil	N	1						1		1
AOC-01C	PL07-01	9/14/2016	4479-091416-0850	3.5 - 4 (ft)	Not Excavated	Soil	N	1				1				1
AOC-01C	PL07-107R	9/14/2016	4479-091416-0840	4.5 - 5 (ft)	Not Excavated	Soil	N	1								1
AOC-08B	B8-8-1	9/14/2016	4479-091416-1420	12 - 12.5 (ft)	Not Excavated	Soil	N	1				1		1		1
AOC-08B	B8-8-1	9/14/2016	4479-091416-1410	7.8 - 8.3 (ft)	Not Excavated	Soil	N	1						1		1
AOC-08B	B8-8-2-100	9/14/2016	4479-091416-1215	9.5 - 10 (ft)	Not Excavated	Soil	N						1	1		1
AOC-08B	B8-8-2-100	9/14/2016	4479-091416-1210	7.8 - 8.3 (ft)	Not Excavated	Soil	N						1	1		1
AOC-08B	B8-8-2-101	9/14/2016	4479-091416-1340	7.8 - 8.3 (ft)	Not Excavated	Soil	N						1	1		1
AOC-08B	B8-8-2-102	9/14/2016	4479-091416-1145	9.5 - 10 (ft)	Excavated	Soil	N						1	2		1

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AOC	Location	Date	Sample Name	Depth	Excavation Status	Matrix	Sample Type	Inorganic Compounds	PCBs	Pesticides	Semi-Volatile Organic Compounds	SPLP Inorganics	SPLP Volatile Organic Compounds	Volatile Organic Compounds	EPH	Other
AOC-08B	B8-8-2-102	9/14/2016	4479-091416-1130	7.8 - 8.3 (ft)	Excavated	Soil	N						1	1		1
AOC-08B	SB-8-SO-11-103	9/14/2016	4479-091416-0920	3.5 - 4 (ft)	Not Excavated	Soil	N							1		1
AOC-08B	SB-8-SO-14	9/14/2016	4479-091416-1500	8 - 10 (ft)	Excavated	Soil	N						1	1		1
AOC-08B	SB-AOC8B-2013-104	9/14/2016	4479-091416-1000	9.5 - 10 (ft)	Not Excavated	Soil	N	1				1		1		1
AOC-08B	SB-AOC8B-2013-105	9/14/2016	4479-091416-1055	9.5 - 10 (ft)	Not Excavated	Soil	N	1				1	1	1		1
AOC-08B	B8-4	9/15/2016	4479-091516-0810	6 - 8 (ft)	Not Excavated	Soil	N	1				1				10
AOC-09	B9-16	9/15/2016	4479-091516-1300	0 - 0.5 (ft)	Not Excavated	Soil	N	1				1				1
AOC-09	B9-16-100	9/15/2016	4479-091516-1305	0 - 0.5 (ft)	Not Excavated	Soil	N	1				1				1
AOC-09	B9-9	9/15/2016	4479-091516-1440	0 - 0.5 (ft)	Not Excavated	Soil	N	1				1				1
AOC-10	B8-4-100	9/15/2016	4479-091516-0840	8 - 8.5 (ft)	Not Excavated	Soil	N						2	2		1
AOC-10	B8-4-100	9/15/2016	4479-091516-0830	0 - 0.5 (ft)	Excavated	Soil	N							1		1
AOC-10	B8-4-102	9/15/2016	4479-091516-0855	8 - 8.5 (ft)	Not Excavated	Soil	N						2	2		1
AOC-10	SB-10-SO-10	9/15/2016	4479-091516-1000	4 - 6 (ft)	Not Excavated	Soil	N	1				1	1	1		1
AOC-10	SB-10-SO-10	9/15/2016	4479-091516-0945	3 - 4 (ft)	Not Excavated	Soil	N	1				1	1	1		1
AOC-10	SB-10-SO-10-100	9/15/2016	4479-091516-1020	6 - 6.5 (ft)	Not Excavated	Soil	N						2	3		1
AOC-10	SB-10-SO-10-103	9/15/2016	4479-091516-1055	6.5 - 7 (ft)	Not Excavated	Soil	N						2	2		1
AOC-10	SB-10-SO-10-103	9/15/2016	4479-091516-1045	4.5 - 5 (ft)	Not Excavated	Soil	N						1	1		1
AOC-10	SB-10-SO-5A	9/15/2016	4479-091516-1435	2 - 4 (ft)	Not Excavated	Soil	N	1				1				1
AOC-10	SB-10-SO-7	9/15/2016	4479-091516-1345	8 - 10 (ft)	Not Excavated	Soil	N	1						1		1
AOC-10	SB-10-SO-7	9/15/2016	4479-091516-1340	4 - 5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	SB-10-SO-7-103	9/15/2016	4479-091516-1330	5.5 - 6 (ft)	Excavated	Soil	N	1								1
AOC-10	SB-AOC10-2013-100	9/15/2016	4479-091516-1110	5 - 5.5 (ft)	Not Excavated	Soil	N	1				1	2	2		10
AOC-10	SB-AOC10-2013-117	9/15/2016	4479-091516-1415	4 - 4.5 (ft)	Not Excavated	Soil	N						1	1		1
AOC-10	SB-AOC10-2013-129	9/15/2016	4479-091516-1500	3.5 - 4 (ft)	Not Excavated	Soil	N	1						1		12
AOC-07A	ISO5-103R	9/16/2016	4479-091616-1200	1 - 1.5 (ft)	Not Excavated	Soil	N									12
AOC-09	B9-2-100R	9/16/2016	4479-091616-1145	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	B9-2-100R	9/16/2016	4479-091616-1142	0 - 0.5 (ft)	Excavated	Soil	N	1				1				1
AOC-09	B9-2-101R	9/16/2016	4479-091616-1138	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	B9-2-101R	9/16/2016	4479-091616-1135	0 - 0.5 (ft)	Excavated	Soil	N	1				1				1
AOC-09	B9-2-103R	9/16/2016	4479-091616-1132	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	B9-2-103R	9/16/2016	4479-091616-1130	0 - 0.5 (ft)	Excavated	Soil	N	1				1				1
AOC-09	B9-2R	9/16/2016	4479-091616-1147	2.5 - 3 (ft)	Excavated	Soil	N									12
AOC-09	B9-2R	9/16/2016	4479-091616-1140	0 - 0.5 (ft)	Excavated	Soil	N	1				1				1
AOC-09	TP9-2-201R	9/16/2016	4479-091616-0910	2.5 - 3 (ft)	Not Excavated	Soil	N							2		1
AOC-09	TP9-2-202R	9/16/2016	4479-091616-0925	2.5 - 3 (ft)	Not Excavated	Soil	N	2						1		1
AOC-09	TP9-2-204R	9/16/2016	4479-091616-0945	2.5 - 3 (ft)	Not Excavated	Soil	N							2		1
AOC-09	TP9-2-206R	9/16/2016	4479-091616-0955	2.5 - 3 (ft)	Not Excavated	Soil	N							1		1
AOC-09	TP9-2-300RR	9/16/2016	4479-091616-0855	4.5 - 5 (ft)	Not Excavated	Soil	N	1					1	1		1
AOC-09	TP9-2-300RR	9/16/2016	4479-091616-0850	3 - 3.5 (ft)	Not Excavated	Soil	N						1	1		1
AOC-09	TP9-3-304R	9/16/2016	4479-091616-1045	4.5 - 5 (ft)	Not Excavated	Soil	N	1						2		12
AOC-09	TP9-3-304R	9/16/2016	4479-091616-1040	3 - 3.5 (ft)	Not Excavated	Soil	N	1						2		1
AOC-09	TP9-3-305R	9/16/2016	4479-091616-1010	3 - 3.5 (ft)	Not Excavated	Soil	N							1		1
AOC-09	TP9-3-305R	9/16/2016	4479-091616-1000	0 - 0.5 (ft)	Not Excavated	Soil	N	2				1		1		1
Delineation Samples																
AOC-09	SB-9-SO-8-A-EX1A	10/26/2016	SB-9-SO-8-A-EX1A-1026-1700	1.5 - 2 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-9-SO-8-A-EX1A	10/26/2016	SB-9-SO-8-A-EX1A-1026-1657	0 - 0.5 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-9-SO-8-A-EX1B	10/26/2016	SB-9-SO-8-A-EX1B-1026-1646	1.3 - 1.5 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-9-SO-8-A-EX1B	10/26/2016	SB-9-SO-8-A-EX1B-1026-1630	0.5 - 1 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-9-SO-8-A-EX1C	10/26/2016	SB-9-SO-8-A-EX1C-1026-1725	1.5 - 2 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-9-SO-8-A-EX1C	10/26/2016	SB-9-SO-8-A-EX1C-1026-1710	0 - 0.5 (ft)	Excavated	Soil	N	1								1
AOC-09	SB-9-SO-8-A-EX1E	10/26/2016	SB-9-SO-8-A-EX1E-1026-1605	1.5 - 2 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-9-SO-8-A-EX1G	10/26/2016	SB-9-SO-8-A-EX1G-1026-1545	1.5 - 2 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-AOC09-13-104-EX1A	10/26/2016	SB-AOC09-2013-104-EX1A-1026-0956	1.5 - 2 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-AOC09-13-104-EX1A	10/26/2016	SB-AOC09-2013-104-EX1A-1026-0953	0 - 0.5 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-AOC09-13-104-EX1B	10/26/2016	SB-AOC09-2013-104-EX1B-1026-1027	1.5 - 2 (ft)	Not Excavated	Soil	N	1								1

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AOC	Location	Date	Sample Name	Depth	Excavation Status	Matrix	Sample Type	Inorganic Compounds	PCBs	Pesticides	Semi-Volatile Organic Compounds	SPLP Inorganics	SPLP Volatile Organic Compounds	Volatile Organic Compounds	EPH	Other
AOC-09	SB-AOC09-13-104-EX1B	10/26/2016	SB-AOC09-2013-104-EX1B-1026-1022	0 - 0.5 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-AOC09-13-104-EX1C	10/26/2016	SB-AOC09-2013-104-EX1C-1026-1205	1.5 - 2 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-AOC09-13-104-EX1C	10/26/2016	SB-AOC09-2013-104-EX1C-1026-1201	0 - 0.5 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-AOC09-13-104-EX1D	10/26/2016	SB-AOC09-2013-EX1D-1026-1109	0 - 0.5 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-AOC09-13-104-EX1D	10/26/2016	SB-AOC09-2013-104-EX1D-1026-1111	1.5 - 2 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-AOC09-13-104-EX1E	10/26/2016	SB-AOC09-2013-104-EX1E-1026-1130	1.5 - 2 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-AOC09-13-104-EX1E	10/26/2016	SB-AOC09-2013-104-EX1E-1026-1121	0 - 0.5 (ft)	Not Excavated	Soil	N	1								1
AOC-01C	SB-C8-EX1A	10/27/2016	SB-C8-EX1A-1027-1430	3 - 3.5 (ft)	Not Excavated	Soil	N							1		1
AOC-01C	SB-C8-EX1A	10/27/2016	SB-C8-EX1A-1027-1424	2 - 2.5 (ft)	Not Excavated	Soil	N							1		1
AOC-01C	SB-C8-EX1B	10/27/2016	SB-C8-EX1B-1027-1515	3 - 3.5 (ft)	Not Excavated	Soil	N							1		1
AOC-01C	SB-C8-EX1B	10/27/2016	SB-C8-EX1B-1027-1440	2 - 2.5 (ft)	Not Excavated	Soil	N							1		1
AOC-01C	SB-C8-EX1C	10/27/2016	SB-C8-EX1C-1027-1521	3 - 3.5 (ft)	Not Excavated	Soil	N							1		1
AOC-01C	SB-C8-EX1C	10/27/2016	SB-C8-EX1C-1027-1518	2 - 2.5 (ft)	Not Excavated	Soil	N							1		1
AOC-01C	SB-C8-EX1D	10/27/2016	SB-C8-EX1D-1027-1505	3 - 3.5 (ft)	Not Excavated	Soil	N							1		1
AOC-01C	SB-F10-EX1A	10/27/2016	SB-F10-EX1A-1027-1635	1.5 - 2 (ft)	Not Excavated	Soil	N							1		1
AOC-01C	SB-F10-EX1B	10/27/2016	SB-F10-EX1B-1027-1605	2.5 - 3 (ft)	Not Excavated	Soil	N							1		1
AOC-01C	SB-F10-EX1B	10/27/2016	SB-E10-EX1B-1027-1600	1.5 - 2 (ft)	Not Excavated	Soil	N							1		1
AOC-01C	SB-F10-EX1C	10/27/2016	SB-F10-EX1C-1027-1545	2.5 - 3 (ft)	Not Excavated	Soil	N							1		1
AOC-01C	SB-F10-EX1C	10/27/2016	SB-F10-EX1C-1027-1540	1.5 - 2 (ft)	Not Excavated	Soil	N							1		1
AOC-01C	SB-F10-EX1D	10/27/2016	SB-F10-EX1D-1027-1610	2.5 - 3 (ft)	Not Excavated	Soil	N							1		1
AOC-07B	B7-2-EX1A	10/27/2016	B7-2-EX1A-1027-1036	1.5 - 2 (ft)	Not Excavated	Soil	N	1								1
AOC-07B	B7-2-EX1A	10/27/2016	B7-2-EX1A-1027-1031	0 - 0.5 (ft)	Not Excavated	Soil	N	1								1
AOC-07B	B7-2-EX1B	10/27/2016	B7-2-EX1B-1027-1115	1.5 - 2 (ft)	Not Excavated	Soil	N	1								1
AOC-07B	B7-2-EX1B	10/27/2016	B7-2-EX1A-1027-1106	0 - 0.5 (ft)	Not Excavated	Soil	N	1								1
AOC-07B	B7-2-EX1C	10/27/2016	B7-2-EX1C-1027-1021	1.5 - 2 (ft)	Not Excavated	Soil	N	1								1
AOC-07B	B7-2-EX1C	10/27/2016	B7-2-EX1C-1027-1019	0 - 0.5 (ft)	Not Excavated	Soil	N	1								1
AOC-08A	CE-1-102-EX1A	10/27/2016	CEI-102-EX1A-1027-1200	1.5 - 2 (ft)	Not Excavated	Soil	N	1								1
AOC-08A	CE-1-102-EX1A	10/27/2016	CEI-102-EX1A-1027-1151	0 - 0.5 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-9-SO-8-A-EX1D	10/27/2016	SB-9-SO-8-A-EX1D-1027-0921	1.5 - 2 (ft)	Not Excavated	Soil	N	1								1
AOC-09	SB-9-SO-8-A-EX1D	10/27/2016	SB-9-SO-8-A-EX1D-1027-0919	0 - 0.5 (ft)	Not Excavated	Soil	N	1								1
Post-Excavation Samples																
AOC-08B	IGW-EX-A02-A	2/22/2018	9179-20180222-1535	9 - 9.5 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A02-A	2/22/2018	9179-20180222-1530	8 - 8.5 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A02-B	2/22/2018	9179-20180222-1537	9 - 9.5 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A02-B	2/22/2018	9179-20180222-1522	8 - 8.5 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A02-C	2/22/2018	9179-20180222-1525	8 - 8.5 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A02-D	2/22/2018	9179-20180222-1540	9 - 9.5 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A02-D	2/22/2018	9179-20180222-1527	8 - 8.5 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A03-A	2/22/2018	9179-20180222-1440	6.5 - 7 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A03-A	2/22/2018	9179-20180222-1410	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A03-B	2/22/2018	9179-20180222-1520	7.5 - 8 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A03-B	2/22/2018	9179-20180222-1505	6.5 - 7 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A03-C	2/22/2018	9179-20180222-DUP2	7.5 - 8 (ft)	Excavated	Soil	FD	1								1
AOC-08B	IGW-EX-A03-C	2/22/2018	9179-20180222-1545	9 - 9.5 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A03-C	2/22/2018	9179-20180222-1515	7.5 - 8 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A03-C	2/22/2018	9179-20180222-1450	6.5 - 7 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A03-D	2/22/2018	9179-20180222-1510	7.5 - 8 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A03-D	2/22/2018	9179-20180222-1500	6.5 - 7 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-A04-A	2/22/2018	9179-20180222-1130	10 - 10.5 (ft)	Excavated	Soil	N							1		1
AOC-08B	IGW-EX-A04-A	2/22/2018	9179-20180222-1120	8 - 8.5 (ft)	Excavated	Soil	N							1		1
AOC-08B	IGW-EX-A04-B	2/22/2018	9179-20180222-1140	10 - 10.5 (ft)	Excavated	Soil	N							1		1
AOC-08B	IGW-EX-A04-B	2/22/2018	9179-20180222-0950	4 - 4.5 (ft)	Excavated	Soil	N							1		1
AOC-08B	IGW-EX-A04-C	2/22/2018	9179-20180222-DUP	10 - 10.5 (ft)	Excavated	Soil	FD							1		1
AOC-08B	IGW-EX-A04-C	2/22/2018	9179-20180222-1040	10 - 10.5 (ft)	Excavated	Soil	N							1		1
AOC-08B	IGW-EX-A04-C	2/22/2018	9179-20180222-1005	5.5 - 6 (ft)	Excavated	Soil	N							1		1

TABLE I
SOIL SAMPLE SUMMARY
EWING TOWNSHIP INDUSTRIAL LAND
EWING , NEW JERSEY

AOC	Location	Date	Sample Name	Depth	Excavation Status	Matrix	Sample Type	Inorganic Compounds	PCBs	Pesticides	Semi-Volatile Organic Compounds	SPLP Inorganics	SPLP Volatile Organic Compounds	Volatile Organic Compounds	EPH	Other
AOC-08B	IGW-EX-A04-D	2/22/2018	9179-20180222-1055	10 - 10.5 (ft)	Excavated	Soil	N							1		1
AOC-08B	IGW-EX-A04-D	2/22/2018	9179-20180222-1020	8 - 8.5 (ft)	Excavated	Soil	N							1		1
AOC-03	B6-201-A	2/23/2018	9179-022318-1140	7.5 - 8 (ft)	Excavated	Soil	N	1								1
AOC-03	B6-201-A	2/23/2018	9179-022318-1030	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-03	B6-201-B	2/23/2018	9179-022318-1145	7.5 - 8 (ft)	Excavated	Soil	N	1								1
AOC-03	B6-201-B	2/23/2018	9179-022318-1035	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-03	B6-201-C	2/23/2018	9179-022318-1150	7.5 - 8 (ft)	Excavated	Soil	N	1								1
AOC-03	B6-201-C	2/23/2018	9179-022318-1040	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-03	B6-201-D	2/23/2018	9179-022318-DUP	7.5 - 8 (ft)	Excavated	Soil	FD	1								1
AOC-03	B6-201-D	2/23/2018	9179-022318-1155	7.5 - 8 (ft)	Excavated	Soil	N	1								1
AOC-03	B6-201-D	2/23/2018	9179-022318-1045	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-10	B8-4-100-A	2/23/2018	9179-022318-1420	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	B8-4-100-A	2/23/2018	9179-022318-1400	7.5 - 8 (ft)	Not Excavated	Soil	N	1								1
AOC-10	B8-4-100-B	2/23/2018	9179-022318-1425	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	B8-4-100-B	2/23/2018	9179-022318-1410	7.5 - 8 (ft)	Not Excavated	Soil	N	1								1
AOC-10	B8-4-100-C	2/23/2018	9179-022318-1430	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	B8-4-100-C	2/23/2018	9179-022318-1415	7.5 - 8 (ft)	Not Excavated	Soil	N	1								1
AOC-10	B8-4-100-D	2/23/2018	9179-022318-1435	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	B8-4-100-D	2/23/2018	9179-022318-1405	7.5 - 8 (ft)	Not Excavated	Soil	N	1								1
AOC-01C	IGW-EX-A08-A	2/26/2018	9179-022618-1145	10 - 10.5 (ft)	Excavated	Soil	N							1		1
AOC-01C	IGW-EX-A08-A	2/26/2018	9179-022618-1045	2 - 2.5 (ft)	Excavated	Soil	N							1		1
AOC-01C	IGW-EX-A08-B	2/26/2018	9179-022618-1150	10 - 10.5 (ft)	Excavated	Soil	N							1		1
AOC-01C	IGW-EX-A08-B	2/26/2018	9179-022618-1050	2 - 2.5 (ft)	Excavated	Soil	N							1		1
AOC-01C	IGW-EX-A08-C	2/26/2018	9179-022618-1155	10 - 10.5 (ft)	Excavated	Soil	N							1		1
AOC-01C	IGW-EX-A08-C	2/26/2018	9179-022618-1055	2 - 2.5 (ft)	Excavated	Soil	N							1		1
AOC-01C	IGW-EX-A08-D	2/26/2018	9179-022618-1200	10 - 10.5 (ft)	Excavated	Soil	N							1		1
AOC-01C	IGW-EX-A08-D	2/26/2018	9179-022618-1100	2 - 2.5 (ft)	Excavated	Soil	N							1		1
AOC-07B	IGW-EX-A05-A	2/27/2018	9179-022718-1010	3.5 - 4 (ft)	Excavated	Soil	N	1								1
AOC-07B	IGW-EX-A05-A	2/27/2018	9179-022718-0950	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07B	IGW-EX-A05-B	2/27/2018	9179-022718-1015	3.5 - 4 (ft)	Excavated	Soil	N	1								1
AOC-07B	IGW-EX-A05-B	2/27/2018	9179-022718-0955	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07B	IGW-EX-A05-C	2/27/2018	9179-022718-1020	3.5 - 4 (ft)	Excavated	Soil	N	1								1
AOC-07B	IGW-EX-A05-C	2/27/2018	9179-022718-0952	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07B	IGW-EX-A05-D	2/27/2018	9179-022718-1025	3.5 - 4 (ft)	Excavated	Soil	N	1								1
AOC-07B	IGW-EX-A05-D	2/27/2018	9179-022718-1000	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07B	IGW-EX-A05-D	2/27/2018	9179-022718-0001	2 - 2.5 (ft)	Excavated	Soil	FD	1								1
AOC-08B	IGW-EX-B12-A	2/27/2018	9179-022718-1247	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-08B	IGW-EX-B12-A	2/27/2018	9179-022718-1245	8 - 8.5 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-B12-B	2/27/2018	9179-022718-1252	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-08B	IGW-EX-B12-B	2/27/2018	9179-022718-1250	8 - 8.5 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-B12-C	2/27/2018	9179-022718-1257	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-08B	IGW-EX-B12-C	2/27/2018	9179-022718-1255	8 - 8.5 (ft)	Excavated	Soil	N	1								1
AOC-08B	IGW-EX-B12-D	2/27/2018	9179-022718-1305	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-08B	IGW-EX-B12-D	2/27/2018	9179-022718-1300	8 - 8.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-A	3/5/2018	9179-030518-0915	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-A	3/5/2018	9179-030518-0910	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-B	3/5/2018	9179-030518-0925	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-B	3/5/2018	9179-030518-0920	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-C	3/5/2018	9179-030518-0935	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-C	3/5/2018	9179-030518-0930	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-D	3/5/2018	9179-030518-0945	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-D	3/5/2018	9179-030518-0940	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-A	3/5/2018	9179-030518-0955	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-A	3/5/2018	9179-030518-0950	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-B	3/5/2018	9179-030518-1005	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-B	3/5/2018	9179-030518-1000	1.5 - 2 (ft)	Excavated	Soil	N	1								1

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SOIL SAMPLE SUMMARY
EWING TOWNSHIP INDUSTRIAL LAND
EWING , NEW JERSEY

AOC	Location	Date	Sample Name	Depth	Excavation Status	Matrix	Sample Type	Inorganic Compounds	PCBs	Pesticides	Semi-Volatile Organic Compounds	SPLP Inorganics	SPLP Volatile Organic Compounds	Volatile Organic Compounds	EPH	Other
AOC-07A	IGW-EX-B09-C	3/5/2018	9179-030518-1015	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-C	3/5/2018	9179-030518-1010	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-D	3/5/2018	9179-030518-1025	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-D	3/5/2018	9179-030518-1020	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-D	3/5/2018	9179-030518-0001	2 - 2.5 (ft)	Excavated	Soil	FD	1								1
AOC-10	IGW-EX-B20-A	3/5/2018	9179-030518-1350	5.5 - 6 (ft)	Excavated	Soil	N	1								1
AOC-10	IGW-EX-B20-A	3/5/2018	9179-030518-1330	4.5 - 5 (ft)	Excavated	Soil	N	1								1
AOC-10	IGW-EX-B20-B	3/5/2018	9179-030518-1355	5.5 - 6 (ft)	Excavated	Soil	N	1								1
AOC-10	IGW-EX-B20-B	3/5/2018	9179-030518-1335	4.5 - 5 (ft)	Excavated	Soil	N	1								1
AOC-10	IGW-EX-B20-C	3/5/2018	9179-030518-1400	5.5 - 6 (ft)	Excavated	Soil	N	1								1
AOC-10	IGW-EX-B20-C	3/5/2018	9179-030518-1340	4.5 - 5 (ft)	Excavated	Soil	N	1								1
AOC-10	IGW-EX-B20-D	3/5/2018	9179-030518-1405	5.5 - 6 (ft)	Excavated	Soil	N	1								1
AOC-10	IGW-EX-B20-D	3/5/2018	9179-030518-1345	4.5 - 5 (ft)	Excavated	Soil	N	1								1
AOC-10	IGW-EX-B20-D	3/5/2018	9179-030518-0002	5.5 - 6 (ft)	Excavated	Soil	FD	1								1
AOC-09	IGW-EX-B14-A	3/6/2018	9179-030618-1355	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-A	3/6/2018	9179-030618-1350	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-B	3/6/2018	9179-030618-1405	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-B	3/6/2018	9179-030618-1400	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-C	3/6/2018	9179-030618-1415	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-C	3/6/2018	9179-030618-1410	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-D	3/6/2018	9179-030618-1425	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-D	3/6/2018	9179-030618-1420	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-10	IGW-EX-B15_A	3/6/2018	9179-030618-0945	10 - 10.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B15_A	3/6/2018	9179-030618-0940	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B15_B	3/6/2018	9179-030618-0955	10 - 10.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B15_B	3/6/2018	9179-030618-0950	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B15_C	3/6/2018	9179-030618-1005	10 - 10.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B15_C	3/6/2018	9179-030618-1000	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B15_D	3/6/2018	9179-030618-1020	10 - 10.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B15_D	3/6/2018	9179-030618-1015	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B15_D	3/6/2018	9179-030618-0001	10 - 10.5 (ft)	Not Excavated	Soil	FD	1								1
AOC-10	IGW-EX-B21-A	3/6/2018	9179-030618-1045	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-A	3/6/2018	9179-030618-1040	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-B	3/6/2018	9179-030618-1055	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-B	3/6/2018	9179-030618-1050	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-C	3/6/2018	9179-030618-1105	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-C	3/6/2018	9179-030618-1100	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-D	3/6/2018	9179-030618-1115	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-D	3/6/2018	9179-030618-1110	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-09	IGW-B16-A	3/8/2018	9179-030818-1405	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B16-A	3/8/2018	9179-030818-1400	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B16-B	3/8/2018	9179-030818-1415	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B16-B	3/8/2018	9179-030818-1410	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B16-C	3/8/2018	9179-030818-1425	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B16-C	3/8/2018	9179-030818-1420	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B16-D	3/8/2018	9179-030818-1440	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B16-D	3/8/2018	9179-030818-1435	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B16-D	3/8/2018	9179-030818-0002	0.5 - 1 (ft)	Excavated	Soil	FD	1								1
AOC-09	IGW-B18-A	3/8/2018	9179-030818-1255	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B18-A	3/8/2018	9179-030818-1250	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B18-B	3/8/2018	9179-030818-1305	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B18-B	3/8/2018	9179-030818-1300	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B18-C	3/8/2018	9179-030818-1325	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B18-C	3/8/2018	9179-030818-1320	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B18-D	3/8/2018	9179-030818-1315	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-B18-D	3/8/2018	9179-030818-1310	0.5 - 1 (ft)	Excavated	Soil	N	1								1

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EWING TOWNSHIP INDUSTRIAL LAND
EWING , NEW JERSEY

AOC	Location	Date	Sample Name	Depth	Excavation Status	Matrix	Sample Type	Inorganic Compounds	PCBs	Pesticides	Semi-Volatile Organic Compounds	SPLP Inorganics	SPLP Volatile Organic Compounds	Volatile Organic Compounds	EPH	Other
AOC-09	IGW-EX-B17-A	3/8/2018	9179-030818-1055	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B17-A	3/8/2018	9179-030818-1050	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B17-B	3/8/2018	9179-030818-1105	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B17-B	3/8/2018	9179-030818-1100	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B17-C	3/8/2018	9179-030818-1115	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B17-C	3/8/2018	9179-030818-1110	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B17-D	3/8/2018	9179-030818-1125	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B17-D	3/8/2018	9179-030818-1120	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B17-D	3/8/2018	9179-030818-0001	0.5 - 1 (ft)	Excavated	Soil	FD	1								1
AOC-09	IGW-EX-B07-A	3/9/2018	9179-030918-0955	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B07-A	3/9/2018	9179-030918-0950	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B07-B	3/9/2018	9179-030918-1005	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B07-B	3/9/2018	9179-030918-1000	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B07-C	3/9/2018	9179-030918-1015	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B07-C	3/9/2018	9179-030918-1010	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B07-D	3/9/2018	9179-030918-1025	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B07-D	3/9/2018	9179-030918-1020	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B19-A	3/9/2018	9179-030918-0907	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B19-A	3/9/2018	9179-030918-0905	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B19-B	3/9/2018	9179-030918-0912	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B19-B	3/9/2018	9179-030918-0910	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B19-C	3/9/2018	9179-030918-0917	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B19-C	3/9/2018	9179-030918-0915	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B19-D	3/9/2018	9179-030918-0922	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B19-D	3/9/2018	9179-030918-0920	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B01-A	3/12/2018	9179-031218-1340	11 - 11.5 (ft)	Not Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B01-A	3/12/2018	9179-031218-1320	7.8 - 8.3 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B01-B	3/12/2018	9179-031218-1345	11 - 11.5 (ft)	Not Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B01-B	3/12/2018	9179-031218-1325	7.8 - 8.3 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B01-C	3/12/2018	9179-031218-1350	11 - 11.5 (ft)	Not Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B01-C	3/12/2018	9179-031218-1330	7.8 - 8.3 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B01-D	3/12/2018	9179-031218-1355	11 - 11.5 (ft)	Not Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B01-D	3/12/2018	9179-031218-1335	7.8 - 8.3 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B01-D	3/12/2018	9179-031218-0001	11 - 11.5 (ft)	Not Excavated	Soil	FD	1								1
AOC-01C	IGW-EX-B11-A	3/12/2018	9179-031218-1520	5.5 - 6 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B11-A	3/12/2018	9179-031218-1500	4 - 4.5 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B11-B	3/12/2018	9179-031218-1525	5.5 - 6 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B11-B	3/12/2018	9179-031218-1505	4 - 4.5 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B11-C	3/12/2018	9179-031218-1530	5.5 - 6 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B11-C	3/12/2018	9179-031218-1510	4 - 4.5 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B11-D	3/12/2018	9179-031218-1535	5.5 - 6 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B11-D	3/12/2018	9179-031218-1515	4 - 4.5 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B11-D	3/12/2018	9179-031218-0002	4 - 4.5 (ft)	Excavated	Soil	FD	1								1
AOC-09	IGW-EX-B13-A	3/12/2018	9179-031218-0845	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B13-A	3/12/2018	9179-031218-0840	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B13-B	3/12/2018	9179-031218-0855	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B13-B	3/12/2018	9179-031218-0850	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B13-C	3/12/2018	9179-031218-0905	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B13-C	3/12/2018	9179-031218-0900	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B13-D	3/12/2018	9179-031218-0915	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B13-D	3/12/2018	9179-031218-0910	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-10	IGW-EX-B22-A	3/12/2018	9179-031218-1020	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-A	3/12/2018	9179-031218-1000	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-B	3/12/2018	9179-031218-1025	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-B	3/12/2018	9179-031218-1005	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-C	3/12/2018	9179-031218-1030	5 - 5.5 (ft)	Excavated	Soil	N	2								1

TABLE I
SOIL SAMPLE SUMMARY
EWING TOWNSHIP INDUSTRIAL LAND
EWING , NEW JERSEY

AOC	Location	Date	Sample Name	Depth	Excavation Status	Matrix	Sample Type	Inorganic Compounds	PCBs	Pesticides	Semi-Volatile Organic Compounds	SPLP Inorganics	SPLP Volatile Organic Compounds	Volatile Organic Compounds	EPH	Other
AOC-10	IGW-EX-B22-C	3/12/2018	9179-031218-1010	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-D	3/12/2018	9179-031218-1035	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-D	3/12/2018	9179-031218-1015	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-01C	IGW-EX-B02-A	3/13/2018	9179-031318-1345	3 - 3.5 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B02-A	3/13/2018	9179-031318-1340	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B02-B	3/13/2018	9179-031318-1355	3 - 3.5 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B02-B	3/13/2018	9179-031318-1350	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B02-C	3/13/2018	9179-031318-1420	3 - 3.5 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B02-C	3/13/2018	9179-031318-1415	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B02-D	3/13/2018	9179-031318-1430	3 - 3.5 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B02-D	3/13/2018	9179-031318-1425	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B02-D	3/13/2018	9179-031318-0002	1.5 - 2 (ft)	Excavated	Soil	FD	1								1
AOC-01C	IGW-EX-B23-A	3/13/2018	9179-031318-1505	2.5 - 3 (ft)	Not Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B23-A	3/13/2018	9179-031318-1500	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B23-B	3/13/2018	9179-031318-1515	2.5 - 3 (ft)	Not Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B23-B	3/13/2018	9179-031318-1510	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B23-C	3/13/2018	9179-031318-1525	2.5 - 3 (ft)	Not Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B23-C	3/13/2018	9179-031318-1520	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B23-D	3/13/2018	9179-031318-1530	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-A	3/13/2018	9179-031318-0905	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-A	3/13/2018	9179-031318-0900	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-B	3/13/2018	9179-031318-0915	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-B	3/13/2018	9179-031318-0910	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-C	3/13/2018	9179-031318-0925	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-C	3/13/2018	9179-031318-0920	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-D	3/13/2018	9179-031318-0935	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-D	3/13/2018	9179-031318-0930	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-D	3/13/2018	9179-031318-0001	0.5 - 1 (ft)	Excavated	Soil	FD	1								1
AOC-09	IGW-EX-B04-B05-B06-E	3/13/2018	9179-031318-0945	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-E	3/13/2018	9179-031318-0940	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-F	3/13/2018	9179-031318-0955	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-F	3/13/2018	9179-031318-0950	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-G	3/13/2018	9179-031318-1005	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-G	3/13/2018	9179-031318-1000	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-H	3/13/2018	9179-031318-1015	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-H	3/13/2018	9179-031318-1010	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B23-D	3/14/2018	9179-031418-1030	2.5 - 3 (ft)	Not Excavated	Soil	N	2								1
AOC-12	IGW-EX-10-A	3/14/2018	9179-031418-0945	6 - 6.5 (ft)	Excavated	Soil	N	1								1
AOC-12	IGW-EX-10-A	3/14/2018	9179-031418-0925	4 - 4.5 (ft)	Excavated	Soil	N	1								1
AOC-12	IGW-EX-10-A	3/14/2018	9179-031418-0001	6 - 6.5 (ft)	Excavated	Soil	N	1								1
AOC-12	IGW-EX-10-B	3/14/2018	9179-031418-0950	6 - 6.5 (ft)	Excavated	Soil	N	1								1
AOC-12	IGW-EX-10-B	3/14/2018	9179-031418-0930	4 - 4.5 (ft)	Excavated	Soil	N	1								1
AOC-12	IGW-EX-10-C	3/14/2018	9179-031418-0955	6 - 6.5 (ft)	Excavated	Soil	N	1								1
AOC-12	IGW-EX-10-C	3/14/2018	9179-031418-0935	4 - 4.5 (ft)	Excavated	Soil	N	1								1
AOC-12	IGW-EX-10-D	3/14/2018	9179-031418-1000	6 - 6.5 (ft)	Excavated	Soil	N	1								1
AOC-12	IGW-EX-10-D	3/14/2018	9179-031418-0940	4 - 4.5 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B23-E	3/19/2018	9179-031918-1135	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B23-E	3/19/2018	9179-031918-1130	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B23-F	3/19/2018	9179-031918-1145	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B23-F	3/19/2018	9179-031918-1140	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B23-G	3/19/2018	9179-031918-1155	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-01C	IGW-EX-B23-G	3/19/2018	9179-031918-1150	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-E	3/19/2018	9179-031918-1445	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-E	3/19/2018	9179-031918-1440	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-F	3/19/2018	9179-031918-1455	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-F	3/19/2018	9179-031918-1450	1 - 1.5 (ft)	Excavated	Soil	N	1								1

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EWING TOWNSHIP INDUSTRIAL LAND
EWING , NEW JERSEY

AOC	Location	Date	Sample Name	Depth	Excavation Status	Matrix	Sample Type	Inorganic Compounds	PCBs	Pesticides	Semi-Volatile Organic Compounds	SPLP Inorganics	SPLP Volatile Organic Compounds	Volatile Organic Compounds	EPH	Other
AOC-07A	IGW-EX-B09-G	3/19/2018	9179-031918-1505	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-G	3/19/2018	9179-031918-1500	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-H	3/19/2018	9179-031918-1515	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-H	3/19/2018	9179-031918-1510	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-I	3/19/2018	9179-031918-1525	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-I	3/19/2018	9179-031918-1520	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-J	3/19/2018	9179-031918-1535	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-J	3/19/2018	9179-031918-1530	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-E	3/20/2018	9179-032018-0920	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-E	3/20/2018	9179-032018-0915	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-F	3/20/2018	9179-032018-0930	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-F	3/20/2018	9179-032018-0925	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-G	3/20/2018	9179-032018-0940	2 - 2.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-G	3/20/2018	9179-032018-0935	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-G	3/20/2018	9179-032018-0001	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-I	3/20/2018	9179-032018-1435	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-I	3/20/2018	9179-032018-1430	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-J	3/20/2018	9179-032018-1445	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-J	3/20/2018	9179-032018-1440	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B04-B05-B06-K	3/20/2018	9179-032018-1450	3 - 3.5 (ft)	Not Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-E	3/20/2018	9179-032018-1005	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-E	3/20/2018	9179-032018-1000	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-F	3/20/2018	9179-032018-1015	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-F	3/20/2018	9179-032018-1010	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-G	3/20/2018	9179-032018-1025	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-G	3/20/2018	9179-032018-1020	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-H	3/20/2018	9179-032018-1035	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-09	IGW-EX-B14-H	3/20/2018	9179-032018-1030	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-10	IGW-EX-B22-E	3/21/2018	9179-032118-1005	5.5 - 6 (ft)	Not Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-E	3/21/2018	9179-032118-1000	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-F	3/21/2018	9179-032118-1015	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-F	3/21/2018	9179-032118-0825	2.5 - 3 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-G	3/21/2018	9179-032118-1020	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-G	3/21/2018	9179-032118-0830	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-H	3/21/2018	9179-032118-0845	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-H	3/21/2018	9179-032118-0840	4 - 4.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-H	3/21/2018	9179-032118-0001	4 - 4.5 (ft)	Excavated	Soil	FD	2								1
AOC-10	IGW-EX-B21-E	3/22/2018	9179-032218-1405	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-E	3/22/2018	9179-032218-1400	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-F	3/22/2018	9179-032218-1415	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-F	3/22/2018	9179-032218-1410	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-G	3/22/2018	9179-032218-1430	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-G	3/22/2018	9179-032218-1425	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-G	3/22/2018	9179-032218-0001	8.5 - 9 (ft)	Not Excavated	Soil	FD	1								1
AOC-07A	IGW-EX-B08-H	3/26/2018	9179-032618-0845	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-H	3/26/2018	9179-032618-0840	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-I	3/26/2018	9179-032618-0855	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-I	3/26/2018	9179-032618-0850	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-J	3/26/2018	9179-032618-0905	2.5 - 3 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B08-J	3/26/2018	9179-032618-0900	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-K	3/26/2018	9179-032618-0925	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-K	3/26/2018	9179-032618-0920	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-L	3/26/2018	9179-032618-0935	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-L	3/26/2018	9179-032618-0930	1 - 1.5 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-M	3/26/2018	9179-032618-0945	1.5 - 2 (ft)	Excavated	Soil	N	1								1
AOC-07A	IGW-EX-B09-M	3/26/2018	9179-032618-0940	1 - 1.5 (ft)	Excavated	Soil	N	1								1

TABLE I
SOIL SAMPLE SUMMARY
EWING TOWNSHIP INDUSTRIAL LAND
EWING , NEW JERSEY

AOC	Location	Date	Sample Name	Depth	Excavation Status	Matrix	Sample Type	Inorganic Compounds	PCBs	Pesticides	Semi-Volatile Organic Compounds	SPLP Inorganics	SPLP Volatile Organic Compounds	Volatile Organic Compounds	EPH	Other
AOC-07A	IGW-EX-B09-M	3/26/2018	9179-032618-0001	1 - 1.5 (ft)	Excavated	Soil	FD	1								1
AOC-10	IGW-EX-B21-H	3/26/2018	9179-032618-1525	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-H	3/26/2018	9179-032618-1520	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-I	3/26/2018	9179-032618-1505	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-I	3/26/2018	9179-032618-1500	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-J	3/26/2018	9179-032618-1515	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-J	3/26/2018	9179-032618-1510	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-K	3/26/2018	9179-032618-1535	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-K	3/26/2018	9179-032618-1530	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-L	3/26/2018	9179-032618-1545	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-L	3/26/2018	9179-032618-1540	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-M	4/3/2018	9179-040318-0935	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-M	4/3/2018	9179-040318-0930	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B22-IR-01	4/4/2018	9179-040418-1415	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-IR-01	4/4/2018	9179-040418-1410	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-IR-01	4/4/2018	9179-040418-0001	3 - 3.5 (ft)	Excavated	Soil	FD	2								1
AOC-10	IGW-EX-B22-IR-02	4/4/2018	9179-040418-1015	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-IR-02	4/4/2018	9179-040418-1010	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-IR-03	4/4/2018	9179-040418-1055	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-IR-03	4/4/2018	9179-040418-1050	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-IR-04	4/4/2018	9179-040418-1115	4 - 4.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-IR-04	4/4/2018	9179-040418-1110	2 - 2.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-IR-05	4/4/2018	9179-040418-1345	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-IR-05	4/4/2018	9179-040418-1340	3.5 - 4 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-IR-06	4/4/2018	9179-040418-1355	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-IR-06	4/4/2018	9179-040418-1350	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-01	4/4/2018	9179-040418-1405	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-01	4/4/2018	9179-040418-1400	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-02	4/4/2018	9179-040418-1005	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-02	4/4/2018	9179-040418-1000	3.5 - 4 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-03	4/4/2018	9179-040418-1045	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-03	4/4/2018	9179-040418-1040	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-04	4/4/2018	9179-040418-1255	5.5 - 6 (ft)	Not Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-04	4/4/2018	9179-040418-1250	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-05	4/4/2018	9179-040418-1305	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-05	4/4/2018	9179-040418-1300	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-06	4/4/2018	9179-040418-1325	4 - 4.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-06	4/4/2018	9179-040418-1320	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-07	4/4/2018	9179-040418-1335	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-07	4/4/2018	9179-040418-1330	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B21-N	4/5/2018	9179-040518-0850	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-N	4/5/2018	9179-040518-0845	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B22-OR-08	4/6/2018	9179-040618-1505	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-08	4/6/2018	9179-040618-1500	3.5 - 4 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-09	4/6/2018	9179-040618-1525	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-09	4/6/2018	9179-040618-1520	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-10	4/6/2018	9179-040618-1515	5 - 5.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-10	4/6/2018	9179-040618-1510	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B21-O	4/9/2018	9179-040918-0835	9 - 9.5 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B21-O	4/9/2018	9179-040918-0830	8.5 - 9 (ft)	Not Excavated	Soil	N	1								1
AOC-10	IGW-EX-B22-OR-11	4/10/2018	9179-041018-1505	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-10	IGW-EX-B22-OR-11	4/10/2018	9179-041018-1500	0.3 - 0.5 (ft)	Excavated	Soil	N	1								1
AOC-10	IGW-EX-B22-OR-12	4/10/2018	9179-041018-1515	0.5 - 1 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-12	4/10/2018	9179-041018-1510	0.3 - 0.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-13	4/10/2018	9179-041018-1100	0.5 - 1 (ft)	Excavated	Soil	N	1								1
AOC-10	IGW-EX-B22-OR-13	4/10/2018	9179-041018-0001	0.5 - 1 (ft)	Excavated	Soil	FD	1								1

TABLE I
SOIL SAMPLE SUMMARY
EWING TOWNSHIP INDUSTRIAL LAND
EWING , NEW JERSEY

AOC	Location	Date	Sample Name	Depth	Excavation Status	Matrix	Sample Type	Inorganic Compounds	PCBs	Pesticides	Semi-Volatile Organic Compounds	SPLP Inorganics	SPLP Volatile Organic Compounds	Volatile Organic Compounds	EPH	Other
AOC-10	IGW-EX-B22-OR-14	4/10/2018	9179-041018-1535	3 - 3.5 (ft)	Excavated	Soil	N	2								1
AOC-10	IGW-EX-B22-OR-14	4/10/2018	9179-041018-1530	1.5 - 2 (ft)	Excavated	Soil	N	2								1

Notes and Abbreviations:
Inorganics group consists of metals, cyanide, and hexavalent chromium
EPH - Extraction Petroleum Hydrocarbon
PCB - Polychlorinated Biphenyl
SVOCs group includes PAHs
Other Group includes percent moisture, total solids, grain size and/or oxidation reduction potential

TABLE II
SCREENING CRITERIA FOR IMPACT TO GROUNDWATER
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Chemical	1999 NJDEP SCC (mg/kg)	2013 Default IGW Screening Criteria (mg/kg)	SPLP Evaluation Values (mg/kg)	**Site-Specific SRS (IGWSSSRS) (mg/kg)**
Inorganic Compounds				
Arsenic	-	19	10	**19**
Chromium (total)	-	-	1,540	**1,540**
Lead	-	90	328	**328**
Nickel	-	48	9,200	**9,200**
Zinc	-	930	14,200	**14,200**
Organic Compounds				
Benzene	1	0.005	0.2	**1**
Benzo(a)anthracene	500	0.8	-	**500**
Benzo(a)pyrene	100	0.2	-	**100**
Chlorobenzene	1	0.6	83	**83**
Trichloroethene	1	0.01	0.13	**1**
Vinyl Chloride	10	0.005	0.06	**10**

Notes:
1. Bold indicates a value used in IGW evaluation methods
2. "-" indicates no value in NJDEP guidance

TABLE III
IMMOBILE CONTAMINANTS EVALUATION FOR LEAD SAMPLES EXCEEDING IGWSSSRS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Boring Location	Surface/ Subsurface	Concentration (mg/kg)	Sample Bottom Depth (ft bgs)	Nearest Boring with Clean Sample Below (within 50 map ft)	Depth of Clean Sample (ft bgs)	Depth To Water Table (ft bgs)	Lead in Nearby Groundwater	Compliant with Immobile Contaminant
268-1	Surface	690.00	1.50	268-1	7.5	15.71	No	Yes
268-2	Surface	1860.00	3.75	268-2	7.5	15.40	No	Yes
ASO12	Surface	804.00	1.00	ASO12-100	1.5	9.59	-	Yes
ASO12-100	Surface	1570.00	1.00	ASO12-100	1.5	9.59	-	Yes
ASO12-101	Surface	542.00	1.00	ASO12-101	1.5	9.69	-	Yes
ASO13	Surface	576.00	1.00	B6-3	2.5	9.49	-	Yes
ASO14	Surface	503.00	1.00			9.03	No	No
ASO17	Surface	679.00	0.75	ASO17	1.25	8.00	-	Yes
ASO20	Surface	888.00	0.75	ASO20	1.25	9.82	-	Yes
ASO20-100	Surface	490.00	0.75	ASO20-100	1.5	9.91	-	Yes
ASO20-101	Surface	1230.00	0.70	ASO20-101	1.5	9.86	-	Yes
ASO21	Surface	457.00	0.75	ASO21	1.25	7.90	-	Yes
ASO23	Surface	1200.00	1.00	ASO23	1.5	9.39	-	Yes
ASO23-100	Surface	541.00	1.00	ASO23-100	1.5	9.43	-	Yes
ASO23-102	Surface	1110.00	1.00	ASO23-102	1.5	9.26	-	Yes
ASO9	Surface	2060	4			11.82	-	No
B-4E	Surface	340.00	0.50	MOA-C-B7	10	16.03	No	Yes
B6-3	Surface	420.00	1.00	B6-3	2.5	9.62	-	Yes
B7-3	Surface	430.00	4.00	B7-3	10.5	13.34	-	Yes
B8-2	Surface	670.00	4.00			9.45	-	No
B8-4	Subsurface	800.00	8.00			9.75	-	No
B8-4-100	Subsurface	1810.00	8.50			9.11	-	No
B8-4-101	Subsurface	331.00	8.50			9.52	-	No
B8-4-102	Subsurface	1010.00	8.50			8.72	-	No
B8-6	Subsurface	1200.00	8.00			9.69	-	No
B8-6-100	Subsurface	396.00	10.00			9.69	-	No
B8-6-101	Surface	336.00	6.00			9.69	-	No
B8-6-103	Surface	7510.00	6.50			10.65	-	No
B8-8	Surface	860.00	10.00	B8-8	12.5	13.15	-	Yes
B8-8-1	Surface	577.00	8.25			14.55	-	No
B8-8-2-100	Surface	3520.00	8.25	B8-8-2-102	10	13.05	-	Yes
B8-8-2-101	Surface	2070.00	8.25	B8-8-2-102	10	13.11	-	Yes
B8-8-4-102	Surface	686.00	11.50	B8-8-4	12.5	14.46	-	Yes
GRB2-1	Surface	9200.00	0.50			14.60	No	No
HSO13	Surface	398.00	0.50	B10-2	4	7.73	-	Yes
HSO15	Surface	555.00	0.50			7.65	No	No
ISO5-100	Surface	460.00	1.50			14.67	No	No
ISO5-103	Surface	1610.00	3.00			14.62	No	No
ISO6	Surface	9390.00	1.50	ISO6-100	3	14.91	-	Yes
ISO6-100	Surface	1280.00	1.50	ISO6-100	3	14.91	-	Yes
ISO6-101	Surface	1160.00	1.50	ISO6-101	3	14.92	-	Yes
ISO6-103	Surface	775.00	1.50	ISO6-103	3	14.85	-	Yes

TABLE III
IMMOBILE CONTAMINANTS EVALUATION FOR LEAD SAMPLES EXCEEDING IGWSSSRS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Boring Location	Surface/ Subsurface	Concentration (mg/kg)	Sample Bottom Depth (ft bgs)	Nearest Boring with Clean Sample Below (within 50 map ft)	Depth of Clean Sample (ft bgs)	Depth To Water Table (ft bgs)	Lead in Nearby Groundwater	Compliant with Immobile Contaminant
ISO7	Surface	334.00	9.00	TP7-2	10.5	14.59	-	Yes
JSO11-101	Surface	1290.00	6.50			10.04	-	No
JSO11-101	Subsurface	526.00	10.00			10.04	-	No
JSO27	Surface	424	0.5	JSO27	2.5	18.70	-	Yes
MC3-1	Surface	382.00	8.50	MC3-1	9.5	13.08	-	Yes
MOA-C-B11	Surface	1040.00	4.00	MOA-C-B11	12	15.64	-	Yes
MOA-C-B13	Surface	2390.00	8.00	MOA-C-B7	10	15.98	No	Yes
MOA-C-B15	Surface	894.00	12.00			16.25	No	No
MOA-C-B7	Surface	1070.00	4.00	MOA-C-B7	10	15.20	-	Yes
MOA-C-B8	Surface	906.00	2.00	MOA-C-B8	10	14.52	-	Yes
MOA-C-B8-100	Surface	398.00	2.50	MOA-C-B8-100	6	14.52	-	Yes
MOA-C-B8-101	Surface	423.00	2.50	MOA-C-B8-101	6	15.45	-	Yes
MOA-C-B8-103	Surface	1130.00	2.50	MOA-C-B8-103	6	15.41	-	Yes
PL05-03	Surface	1070.00	7.00	111-1	7.5	10.69	-	Yes
PL07-105	Surface	398.00	1.00	PL07-105	5	14.75	-	Yes
PL07-107	Surface	517.00	5.00			14.39	No	No
PL10-101	Surface	4810.00	3.50			6.34	No	No
PL10-11	Surface	341.00	3.50			6.27	No	No
PL10-13	Surface	352.00	3.50			8.00	No	No
PL12-08	Surface	2410.00	5.00	PL12-08	8.5	9.54	-	Yes
SB-10-SO-10	Subsurface	830.00	6.00			7.91	-	No
SB-10-SO-10-100	Subsurface	793.00	6.50			7.91	-	No
SB-10-SO-10-101	Subsurface	712.00	7.00			7.87	-	No
SB-10-SO-10-101	Surface	462.00	5.00			7.87	-	No
SB-10-SO-10-102	Surface	410.00	6.00			8.00	-	No
SB-10-SO-10-103	Subsurface	468.00	7.00			7.89	-	No
SB-10-SO-10-103	Surface	362.00	0.50			7.89	-	No
SB-10-SO-2	Subsurface	1200.00	6.00	SB-10-SO-2	7	7.60	-	Yes
SB-10-SO-209	Subsurface	769.00	10.00			10.57	-	No
SB-10-SO-5-100	Surface	1210.00	2.00	WSO14	6	6.64	-	Yes
SB-10-SO-5-100	Subsurface	333.00	5.00			6.64	-	No
SB-10-SO-5-101	Surface	1440.00	1.50	SB-10-SO-5-101	5	6.60	-	Yes
SB-10-SO-5-102	Surface	2400.00	1.50	SB-10-SO-5-102	5	6.66	No	Yes
SB-10-SO-5-103	Surface	477.00	1.50	SB-10-SO-5-103	5	6.65	-	Yes
SB-10-SO-5A	Subsurface	3900.00	4.00	SB-10-SO-5A	6	5.79	No	Yes
SB-10-SO-5A-100	Surface	916.00	2.50	SB-10-SO-5A-100	5	5.79	-	Yes
SB-10-SO-5A-101	Surface	504.00	2.50	SB-10-SO-5A-101	5	5.81	-	Yes
SB-10-SO-7	Surface	4700.00	5.00	SB-10-SO-7	10	8.89	-	Yes
SB-10-SO-7-102	Subsurface	477.00	7.00			8.89	No	No
SB-10-SO-7-103	Surface	1960.00	6.00	SB-10-SO-7-101	9	8.83	No	Yes
SB-10-SO-9	Surface	420.00	4.00	SB-10-SO-9	10	9.20	-	Yes
SB-3-SO-11	Surface	980.00	0.50			12.69	-	No

TABLE III
IMMOBILE CONTAMINANTS EVALUATION FOR LEAD SAMPLES EXCEEDING IGWSSSRS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Boring Location	Surface/ Subsurface	Concentration (mg/kg)	Sample Bottom Depth (ft bgs)	Nearest Boring with Clean Sample Below (within 50 map ft)	Depth of Clean Sample (ft bgs)	Depth To Water Table (ft bgs)	Lead in Nearby Groundwater	Compliant with Immobile Contaminant
SB-7-SO-3	Surface	350.00	10.00			14.15	No	No
SB-7-SO-5	Surface	690.00	4.00	SB-7-SO-5	12	14.29	-	Yes
SB-8-SO-11	Subsurface	4300.00	8.00			9.25	-	No
SB-8-SO-11-102	Surface	1110.00	3.50	SB-8-SO-11-100	6.5	9.18	-	Yes
SB-8-SO-11-103	Surface	436.00	4.00	SB-8-SO-11-100	6.5	9.28	-	Yes
SB-8-SO-14	Surface	1000.00	10.00			13.16	-	No
SB-8-SO-14-100	Surface	4770.00	8.25			13.16	-	No
SB-8-SO-14-101	Surface	1230.00	8.25			12.19	-	No
SB-8-SO-14-101	Subsurface	719.00	11.50			12.19	-	No
SB-AOC10-2013-106	Surface	1400.00	5.50			8.24	-	No
SB-AOC10-2013-109	Subsurface	385.00	9.00			9.53	-	No
SB-AOC10-2013-115	Surface	4000.00	5.00			7.92	No	No
SB-AOC10-2013-117	Surface	378.00	4.50	SB-AOC10-2013-117	8	8.04	No	Yes
SB-AOC10-2013-118	Surface	484.00	4.50			6.64	No	No
SB-AOC10-2013-119	Surface	1670.00	4.50	SB-10-SO-5	6	7.30	-	Yes
SB-AOC10-2013-121	Surface	624.00	0.50	SB-AOC10-2013-121	7	7.18	-	Yes
SB-AOC10-2013-122	Surface	741.00	0.50	SB-AOC10-2013-122	7	6.74	-	Yes
SB-AOC10-2013-124	Surface	1120.00	4.00	SB-AOC10-2013-124	7	7.29	-	Yes
SB-AOC10-2013-126	Surface	577.00	0.50	SB-AOC10-2013-126	7	9.18	-	Yes
SB-AOC10-2013-127	Surface	922.00	4.00	SB-AOC10-2013-127	7	8.46	-	Yes
SB-AOC10-2013-128	Surface	620.00	4.00	SB-AOC10-2013-128	7	7.29	-	Yes
SB-AOC8B-2013-101	Surface	457.00	10.00			12.62	-	No
SB-AOC8B-2013-104	Subsurface	366.00	10.00			10.20	-	No
TP7-4	Surface	441.00	0.50	TP7-4	10	15.68	-	Yes
TP9-2	Surface	1100.00	4.00	TP9-2	10.5	12.96	-	Yes
TP9-2-102	Surface	569.00	5.00	TP9-2	10.5	13.02	-	Yes
TP9-2-103	Surface	670.00	5.00	TP9-2	10.5	12.91	-	Yes
TP9-3-304	Surface	3350.00	3.50	TP9-3-304	5	14.26	No	Yes

Notes:
1. "-" indicates parameter was not analyzed
2. Blank cell indicates no applicable value

TABLE IV
POST-HOT SPOT EVALUATION NON-COMPLIANT SAMPLE LOCATIONS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Exceeding Sample Location	Constituent of Concern	Maximum Concentration (mg/kg)	Sample Bottom Depth (ft bgs)	Depth of Non-Exceeding Sample at Same Location (ft bgs)	Depth to Water Table (ft bgs)	Local Delineation Sufficient for Functional Area Analysis	Proposed Excavation Depth[4] (ft bgs)	Excavation Group[5]
109-1	Chromium	3840	7.8	None	14.03	No	14.0	B
268-1	Nickel	9940	1.5	None	15.71	No	15.7	B
B6-201	Arsenic	76.2	1.0	10.0	14.34	Yes	10.0	B*
B8-4-100	Lead	1810	8.5	None	9.11	Yes	9.1	A
B8-6[1]	Lead	1200	8.0	None	9.69	Yes	9.7	A
B8-6-100[1]	Lead	396	10.0	None				
B8-6-103	Lead	7510	6.5	None	10.65	Yes	10.6	A
B8-8-2-102	Trichloroethene	13.0	10.0	None	13.02	Yes	13.0	A
B9-2-100	Arsenic	365	0.5	3.0	6.76	No	3.0	B
B9-2-101	Arsenic	356	0.5	3.0	6.21	No	3.0	B
B9-2-103	Arsenic	407	0.5	3.0	7.08	No	3.0	B
HSO17-A	Arsenic	122	0.5	None	2.32	No	2.3	B
ISO6-102	Arsenic	62.8	1.5	3.0	14.97	Yes	3.0	B*
ISO6-103	Arsenic	71.2	1.5	3.0	14.85	Yes	3.0	B*
MW-22	Arsenic	91.0	4.0	8.5	14.03	No	8.5	B
PL05-02	Nickel	12500	4.0	None	9.95	No	10.0	B
SB-10-SO-209	Lead	769	10.0	None	10.57	No	10.6	B
SB-10-SO-7-103[2]	Chromium	4500	6.0	None	8.83	Yes	8.8	A
SB-10-SO-7-103[2]	Nickel	11300	6.0	None				
SB-7-SO-7	Chromium	8100	2.0	4.0	14.45	Yes	4.0	A
SB-8-SO-11	Lead	4300	8.0	None	9.25	Yes	9.3	B*
SB-8-SO-14-100	Lead	4770	8.3	None	13.16	Yes	13.2	A
SB-9-SO-4-A	Arsenic	241	0.5	None	9.63	Yes	9.6	B*
SB-9-SO-8-A-EX1C	Arsenic	250	0.5	2.0	10.12	No	2.0	B
SB-AOC09-2013-102	Arsenic	325	4.5	4.5	6.05	No	4.5	B
SB-AOC09-2013-104	Arsenic	135	4.5	4.5	3.03	No	3.0	B
SB-AOC09-2013-104-EX1A	Arsenic	220	2.0	None	3.03	No	3.0	B
SB-AOC09-2013-105	Arsenic	61.1	4.5	4.5	2.35	No	2.4	B
SB-AOC10-2013-106	Lead	1400	5.5	None	8.24	Yes	8.2	B*
SB-AOC10-2013-109	Lead	385	9.0	None	9.53	No	9.5	B
SB-AOC10-2013-115[2]	Chromium	10800	5.0	10.0	7.92	Yes	7.9	B*
SB-AOC10-2013-115[2]	Nickel	24800	5.0	None				
SB-F10	Trichloroethene	31.0	2.0	None	13.05	Yes	13.1	A
SR-1	Chromium	5900	1.0	None	16.11	No	16.1	B

Notes:

1. B8-6-100 was a 2011 resample of B8-6, which was collected in 1998. Both locations were addressed in the same excavation.
2. Both chromium and nickel exceeded IGWSSSRS at SB-10-SO-7-103 and SB-AOC10-2013-115. Both constituents were addressed in one excavation at each location.
4. The proposed excavation depth was based on the shallower of a) the water table, or b) a clean sample in the same boring.
5. Excavation group definitions:

   A - Local delineation was sufficient and the excavation volume of the Thiessen polygon containing the exceeding sample was less than 650 yd^3

   B*- Local delineation was sufficient and the excavation volume of the Thiessen polygon containing the exceeding sample was greater than 650 yd^3

   B - Local delineation was insufficient to conduct functional area analysis

TABLE V
GROUP A EXCAVATION SUMMARIES
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Excavation ID	Constituent of Concern	Original Exceeding Sample Name	Site-Specific SRS (IGWSSSRS) (mg/kg)	Original Exceeding Sample Concentration (mg/kg)	Original Exceeding Sample Depth (ft bgs)	Proposed Excavation Depth (ft bgs)	Surveyed[1] Excavation Depth (ft bgs)	Post-Excavation Sample[2] Maximum Concentration (mg/kg)	Compliance Method[3]				
									Single Point Compliance	75%/10X	Spatially Weighted Averaging	SWA Concentration (mg/kg)	Full Polygon Excavation
IGW-EX-A01	Lead	B8-4-100	328	1810	8.5	9.1	7.7	1370	Fail	Fail	Pass	285	--
IGW-EX-A02	Lead	B8-6	328	1200	8.0	9.7	10.3	NS	Fail	Fail	Fail	--	Pass
IGW-EX-A03		B8-6-103		7510	6.5	10.6				Pass			
IGW-EX-A04	TCE	B8-8-2-102	1	13	10.0	13.0	11.2	ND (6.2)	Pass	Pass	--	--	--
IGW-EX-A05	Chromium	SB-7-SO-7	1540	8100	2.0	4.0	4.8	288	Pass	--	--	--	--
IGW-EX-A06	Lead	SB-8-SO-14-100	328	4770	8.3	13.2	15.9	6.6	Pass	--	--	--	--
IGW-EX-A07	Chromium	SB-10-SO-7-103	1540	4500	6.0	8.8	6.0	NS	Pass	--	Pass	1108	--
IGW-EX-A08	TCE	SB-F10	1	31	2.0	13.1	12.7	NS	Fail	Pass	--	--	--

Notes:
1. Survey points were located at the base of excavation sidewalls; therefore, they may not represent the deepest part of the excavation.
2. "NS" indicates that the complete Thiessen polygon containing the original exceeding sample was excavated and no sidewall samples were collected.
3. "--" indicates that the method was not used in the compliance evaluation.

TABLE VI
GROUP A EXCAVATIONS ANALYTICAL DATA SUMMARY
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NJ

						Chemical Name	Arsenic	Chromium	Lead	Nickel	TCE	Total Solids
						Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%
						IGWSSSRS	19	1540	328	9200	1	-
Location	**Sample Date**	**Sample Type**	**Sample Depth (bgs)**	**Sample Name**	**Previous Location**	**SDG**						
B8-4-100-A	2/23/2018	N	7.5 - 8 (ft)	9179-022318-1400	B8-4-100	L1806523	-	-	**1370** [A]	-	-	**62.2**
B8-4-100-A	2/23/2018	N	8.5 - 9 (ft)	9179-022318-1420	B8-4-100	L1806523	-	-	**100**	-	-	**64**
B8-4-100-B	2/23/2018	N	7.5 - 8 (ft)	9179-022318-1410	B8-4-100	L1806523	-	-	**340** [A]	-	-	**68.5**
B8-4-100-B	2/23/2018	N	8.5 - 9 (ft)	9179-022318-1425	B8-4-100	L1806523	-	-	**256**	-	-	**70.3**
B8-4-100-C	2/23/2018	N	7.5 - 8 (ft)	9179-022318-1415	B8-4-100	L1806523	-	-	**372** [A]	-	-	**71**
B8-4-100-C	2/23/2018	N	8.5 - 9 (ft)	9179-022318-1430	B8-4-100	L1806523	-	-	**323**	-	-	**68.6**
B8-4-100-D	2/23/2018	N	7.5 - 8 (ft)	9179-022318-1405	B8-4-100	L1806523	-	-	**204**	-	-	**79.9**
B8-4-100-D	2/23/2018	N	8.5 - 9 (ft)	9179-022318-1435	B8-4-100	L1806523	-	-	**561** [A]	-	-	**67.4**
IGW-EX-A04-A	2/22/2018	N	8 - 8.5 (ft)	9179-20180222-1120	B8-8-2-102	L1806322	-	-	-	-	ND (0.58)	**53.8**
IGW-EX-A04-A	2/22/2018	N	10 - 10.5 (ft)	9179-20180222-1130	B8-8-2-102	L1806322	-	-	-	-	ND (1.3)	**83.8**
IGW-EX-A04-B	2/22/2018	N	4 - 4.5 (ft)	9179-20180222-0950	B8-8-2-102	L1806322	-	-	-	-	ND (0.06)	**83.4**
IGW-EX-A04-B	2/22/2018	N	10 - 10.5 (ft)	9179-20180222-1140	B8-8-2-102	L1806322	-	-	-	-	ND (0.4)	**71.1**
IGW-EX-A04-C	2/22/2018	N	5.5 - 6 (ft)	9179-20180222-1005	B8-8-2-102	L1806322	-	-	-	-	ND (0.22)	**87.5**
IGW-EX-A04-C	2/22/2018	N	10 - 10.5 (ft)	9179-20180222-1040	B8-8-2-102	L1806322	-	-	-	-	ND (0.95)	**66.5**
IGW-EX-A04-C	2/22/2018	FD	10 - 10.5 (ft)	9179-20180222-DUP	B8-8-2-102	L1806322	-	-	-	-	ND (0.00097)	**67.3**
IGW-EX-A04-D	2/22/2018	N	8 - 8.5 (ft)	9179-20180222-1020	B8-8-2-102	L1806322	-	-	-	-	ND (6.2)	**70.7**
IGW-EX-A04-D	2/22/2018	N	10 - 10.5 (ft)	9179-20180222-1055	B8-8-2-102	L1806322	-	-	-	-	ND (0.51)	**68**
IGW-EX-A05-A	2/27/2018	N	2 - 2.5 (ft)	9179-022718-0950	SB-7-SO-7	L1806796	-	**288**	-	-	-	**71.2**
IGW-EX-A05-A	2/27/2018	N	3.5 - 4 (ft)	9179-022718-1010	SB-7-SO-7	L1806796	-	**18**	-	-	-	**80.9**
IGW-EX-A05-B	2/27/2018	N	2 - 2.5 (ft)	9179-022718-0955	SB-7-SO-7	L1806796	-	**202**	-	-	-	**73.8**
IGW-EX-A05-B	2/27/2018	N	3.5 - 4 (ft)	9179-022718-1015	SB-7-SO-7	L1806796	-	**74.5**	-	-	-	**77.7**
IGW-EX-A05-C	2/27/2018	N	2 - 2.5 (ft)	9179-022718-0952	SB-7-SO-7	L1806796	-	**263**	-	-	-	**82.7**
IGW-EX-A05-C	2/27/2018	N	3.5 - 4 (ft)	9179-022718-1020	SB-7-SO-7	L1806796	-	**103**	-	-	-	**76.8**
IGW-EX-A05-D	2/27/2018	N	2 - 2.5 (ft)	9179-022718-1000	SB-7-SO-7	L1806796	-	**208**	-	-	-	**76.9**
IGW-EX-A05-D	2/27/2018	FD	2 - 2.5 (ft)	9179-022718-0001	SB-7-SO-7	L1806796	-	**249**	-	-	-	**69.7**
IGW-EX-A05-D	2/27/2018	N	3.5 - 4 (ft)	9179-022718-1025	SB-7-SO-7	L1806796	-	**49.2**	-	-	-	**81.1**
IGW-EX-A08-A	2/26/2018	N	2 - 2.5 (ft)	9179-022618-1045	SB-F10	L1806600	-	-	-	-	**0.022**	**82.1**
IGW-EX-A08-A	2/26/2018	N	10 - 10.5 (ft)	9179-022618-1145	SB-F10	L1806600	-	-	-	-	**0.0042**	**81.8**
IGW-EX-A08-B	2/26/2018	N	2 - 2.5 (ft)	9179-022618-1050	SB-F10	L1806600	-	-	-	-	**0.0058**	**85.9**
IGW-EX-A08-B	2/26/2018	N	10 - 10.5 (ft)	9179-022618-1150	SB-F10	L1806600	-	-	-	-	**0.0067**	**81.3**
IGW-EX-A08-C	2/26/2018	N	2 - 2.5 (ft)	9179-022618-1055	SB-F10	L1806600	-	-	-	-	**1.4** [A]	**82.4**
IGW-EX-A08-C	2/26/2018	N	10 - 10.5 (ft)	9179-022618-1155	SB-F10	L1806600	-	-	-	-	**0.0013**	**82.2**
IGW-EX-A08-D	2/26/2018	N	2 - 2.5 (ft)	9179-022618-1100	SB-F10	L1806600	-	-	-	-	**6.6** [A]	**83**
IGW-EX-A08-D	2/26/2018	N	10 - 10.5 (ft)	9179-022618-1200	SB-F10	L1806600	-	-	-	-	**0.0084**	**84.4**

Notes:
1. Results in red exceed the following criteria:
   [A] - Exceeds Site-Specific Impact to Groundwater SRS (IGWSSSRS)
2. ND - Not detected above reporting limit
3 Results in **bold** were detected.
4. Sample Type: N - Normal sample, FD - Field Duplicate
5. Sample locations that were excavated are not shown

TABLE VII
GROUP B EXCAVATION SUMMARIES
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

										Compliance Method[3]				
Excavation ID	Subgroup	Constituent of Concern	Original Exceeding Sample Name	Site-Specific SRS (IGWSSSRS) (mg/kg)	Original Exceeding Sample Concentration (mg/kg)	Original Exceeding Sample Depth (ft bgs)	Proposed Excavation Depth (ft bgs)	Surveyed[1] Excavation Depth (ft bgs)	Post-Excavation[2] Maximum Concentration (mg/kg)	Single Point Compliance	75%/10X	Spatially Weighted Averaging	SWA Concentration (mg/kg)	Expanded Excavation
IGW-EX-B01	B	Chromium	109-1	1540	3840	7.8	14.0	11.3	136	Pass	--	--	--	--
IGW-EX-B02	B	Nickel	268-1	9200	9940	1.5	15.7	12.9	4210	Pass	--	--	--	--
IGW-EX-B03	B*	Arsenic	B6-201	19	76.2	1.0	10.0	8.0	24.7	Fail	Fail	Pass	14.5	--
IGW-EX-B08	B*	Arsenic	ISO6-102	19	62.8	1.5	3.0	3.1	20.2	Fail	Fail	Pass	15.3	Pass
IGW-EX-B09	B*		ISO6-103		71.2	1.5	3.0		80.5					
IGW-EX-B10	B	Arsenic	MW-22	19	91	4.0	8.5	8.2	53.4	Fail	Fail	Pass	12.4	--
IGW-EX-B11	B	Nickel	PL05-02	9200	12500	4.0	10.0	10.1	902	Pass	--	--	--	--
IGW-EX-B12	B*	Lead	SB-8-SO-11	328	4300	8.0	9.3	8.6	954	Fail	Fail	Pass	201	--
IGW-EX-B13	B*	Arsenic	SB-9-SO-4-A	19	241	0.5	9.6	7.1	34.2	Fail	Pass	--	--	--
IGW-EX-B15	B	Lead	SB-10-SO-209	328	769	10.0	10.6	7.4	642	Fail	Fail	Pass	226	--
IGW-EX-B20	B*	Lead	SB-AOC10-2013-106	328	1400	5.5	8.2	7.3	166	Pass	--	--	--	--
IGW-EX-B21	B	Lead	SB-AOC10-2013-109	328	385	9.0	9.5	7.4	678	Fail	Fail	Pass	226	Pass
IGW-EX-B22	B*	Chromium/Nickel	SB-AOC10-2013-115	1540/9200	10800/24800	5.0	7.9	5.8	24200/40100	Fail	Fail	Pass	1108/3194	Pass
IGW-EX-B23	B	Chromium	SR-1	1540	5900	1.0	16.1	10.4	12200	Fail	Pass	--	--	--
Naturally Occurring Arsenic Determination														
IGW-EX-B04	B	Arsenic	B9-2-100	19	365	0.5	3.0	3.2	518	Fail	Fail	--	--	--
IGW-EX-B05	B		B9-2-101		769	0.5								
IGW-EX-B06	B		B9-2-103		407	0.5								
IGW-EX-B07	B	Arsenic	HSO17-A	19	122	0.5	2.3	2.3	300	Fail	Fail	--	--	--
IGW-EX-B14	B	Arsenic	SB-9-SO-8-A-EX1C	19	250	0.5	2.0	1.8	448	Fail	Fail	--	--	--
IGW-EX-B16	B	Arsenic	SB-AOC09-2013-102	19	325	0.5	4.5	4.0	166	Fail	Fail	--	--	--
IGW-EX-B17	B	Arsenic	SB-AOC09-2013-104	19	135	0.5	3.0	2.4	77.7	Fail	Fail	--	--	--
IGW-EX-B18	B	Arsenic	SB-AOC09-2013-104-EX1A	19	220	0.5	3.0	2.6	230	Fail	Fail	--	--	--
IGW-EX-B19	B	Arsenic	SB-AOC09-2013-105	19	61.1	0.5	2.4	2.1	243	Fail	Fail	--	--	--

Notes:
1. Survey points were located at the base of excavation sidewalls; therefore, they may not represent the deepest part of the excavation.
2. "NS" indicates that the complete Thiessen polygon containing the original exceeding sample was excavated and no sidewall samples were collected.
3. "--" indicates that the method was not used in the compliance evaluation.

TABLE VIII
GROUP B EXCAVATIONS ANALYTICAL DATA SUMMARY
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NJ

						Chemical Name	Arsenic	Chromium	Lead	Nickel	TCE	Total Solids
						Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%
						IGWSSSRS	19	1540	328	9200	1	-
Location	**Sample Date**	**Sample Type**	**Sample Depth (bgs)**	**Sample Name**	**Previous Location**	**SDG**						
B6-201-A	2/23/2018	N	1 - 1.5 (ft)	9179-022318-1030	B6-201	L1806523	**24.7** [A]	-	-	-	-	**85.6**
B6-201-A	2/23/2018	N	7.5 - 8 (ft)	9179-022318-1140	B6-201	L1806523	**22.7** [A]	-	-	-	-	**78.7**
B6-201-B	2/23/2018	N	1 - 1.5 (ft)	9179-022318-1035	B6-201	L1806523	**23.7** [A]	-	-	-	-	**83.7**
B6-201-B	2/23/2018	N	7.5 - 8 (ft)	9179-022318-1145	B6-201	L1806523	**18.8**	-	-	-	-	**82**
B6-201-C	2/23/2018	N	1 - 1.5 (ft)	9179-022318-1040	B6-201	L1806523	**21.2** [A]	-	-	-	-	**87.1**
B6-201-C	2/23/2018	N	7.5 - 8 (ft)	9179-022318-1150	B6-201	L1806523	**21.3** [A]	-	-	-	-	**80.8**
B6-201-D	2/23/2018	N	1 - 1.5 (ft)	9179-022318-1045	B6-201	L1806523	**24.3** [A]	-	-	-	-	**87.2**
B6-201-D	2/23/2018	N	7.5 - 8 (ft)	9179-022318-1155	B6-201	L1806523	**21.2** [A]	-	-	-	-	**80.9**
B6-201-D	2/23/2018	FD	7.5 - 8 (ft)	9179-022318-DUP	B6-201	L1806523	**19.5** [A]	-	-	-	-	**77.5**
IGW-B16-A	3/8/2018	N	0.5 - 1 (ft)	9179-030818-1400	SB-AOC09-2013-102	L1808072	**12.2**	-	-	-	-	**74.8**
IGW-B16-A	3/8/2018	N	2 - 2.5 (ft)	9179-030818-1405	SB-AOC09-2013-102	L1808072	**8.29**	-	-	-	-	**79.5**
IGW-B16-B	3/8/2018	N	0.5 - 1 (ft)	9179-030818-1410	SB-AOC09-2013-102	L1808072	**166** [A]	-	-	-	-	**77**
IGW-B16-B	3/8/2018	N	2 - 2.5 (ft)	9179-030818-1415	SB-AOC09-2013-102	L1808072	**12.2**	-	-	-	-	**79.2**
IGW-B16-C	3/8/2018	N	0.5 - 1 (ft)	9179-030818-1420	SB-AOC09-2013-102	L1808072	**22.8** [A]	-	-	-	-	**74.7**
IGW-B16-C	3/8/2018	N	2 - 2.5 (ft)	9179-030818-1425	SB-AOC09-2013-102	L1808072	**15.7**	-	-	-	-	**80.9**
IGW-B16-D	3/8/2018	N	0.5 - 1 (ft)	9179-030818-1435	SB-AOC09-2013-102	L1808072	**17.5**	-	-	-	-	**74.3**
IGW-B16-D	3/8/2018	N	2 - 2.5 (ft)	9179-030818-1440	SB-AOC09-2013-102	L1808072	**16.9**	-	-	-	-	**75.6**
IGW-B18-A	3/8/2018	N	0.5 - 1 (ft)	9179-030818-1250	SB-AOC09-2013-104-EX1A	L1808072	**230** [A]	-	-	-	-	**74.9**
IGW-B18-A	3/8/2018	N	2 - 2.5 (ft)	9179-030818-1255	SB-AOC09-2013-104-EX1A	L1808072	**37.1** [A]	-	-	-	-	**76.3**
IGW-B18-B	3/8/2018	N	0.5 - 1 (ft)	9179-030818-1300	SB-AOC09-2013-104-EX1A	L1808072	**76.4** [A]	-	-	-	-	**74**
IGW-B18-B	3/8/2018	N	2 - 2.5 (ft)	9179-030818-1305	SB-AOC09-2013-104-EX1A	L1808072	**13.2**	-	-	-	-	**77**
IGW-B18-C	3/8/2018	N	0.5 - 1 (ft)	9179-030818-1320	SB-AOC09-2013-104-EX1A	L1808072	**205** [A]	-	-	-	-	**58.8**
IGW-B18-C	3/8/2018	N	2 - 2.5 (ft)	9179-030818-1325	SB-AOC09-2013-104-EX1A	L1808072	**20** [A]	-	-	-	-	**69.8**
IGW-B18-D	3/8/2018	N	0.5 - 1 (ft)	9179-030818-1310	SB-AOC09-2013-104-EX1A	L1808072	**92.7** [A]	-	-	-	-	**69.7**
IGW-B18-D	3/8/2018	N	2 - 2.5 (ft)	9179-030818-1315	SB-AOC09-2013-104-EX1A	L1808072	**17.7**	-	-	-	-	**76.6**
IGW-EX-10-A	3/14/2018	N	4 - 4.5 (ft)	9179-031418-0925	MW-22	L1808687	**8.39**	-	-	-	-	**79.8**
IGW-EX-10-A	3/14/2018	N	6 - 6.5 (ft)	9179-031418-0001	MW-22	L1808687	**0.839**	-	-	-	-	**73.8**
IGW-EX-10-A	3/14/2018	N	6 - 6.5 (ft)	9179-031418-0945	MW-22	L1808687	**22.1** [A]	-	-	-	-	**75.6**
IGW-EX-10-B	3/14/2018	N	4 - 4.5 (ft)	9179-031418-0930	MW-22	L1808687	**53.4** [A]	-	-	-	-	**85.6**
IGW-EX-10-B	3/14/2018	N	6 - 6.5 (ft)	9179-031418-0950	MW-22	L1808687	**4.15**	-	-	-	-	**74.8**
IGW-EX-10-C	3/14/2018	N	4 - 4.5 (ft)	9179-031418-0935	MW-22	L1808687	**47.9** [A]	-	-	-	-	**83.2**
IGW-EX-10-C	3/14/2018	N	6 - 6.5 (ft)	9179-031418-0955	MW-22	L1808687	**2.27**	-	-	-	-	**74.1**
IGW-EX-10-D	3/14/2018	N	4 - 4.5 (ft)	9179-031418-0940	MW-22	L1808687	**7.82**	-	-	-	-	**82.3**
IGW-EX-10-D	3/14/2018	N	6 - 6.5 (ft)	9179-031418-1000	MW-22	L1808687	**1.1**	-	-	-	-	**74.6**
IGW-EX-B01-A	3/12/2018	N	7.8 - 8.3 (ft)	9179-031218-1320	109-1	L1808465	-	**25.3**	-	-	-	**79.3**
IGW-EX-B01-A	3/12/2018	N	11 - 11.5 (ft)	9179-031218-1340	109-1	L1808465	-	**28.9**	-	-	-	**80.4**
IGW-EX-B01-B	3/12/2018	N	7.8 - 8.3 (ft)	9179-031218-1325	109-1	L1808465	-	**25**	-	-	-	**82.6**
IGW-EX-B01-B	3/12/2018	N	11 - 11.5 (ft)	9179-031218-1345	109-1	L1808465	-	**26.3**	-	-	-	**78.1**
IGW-EX-B01-C	3/12/2018	N	7.8 - 8.3 (ft)	9179-031218-1330	109-1	L1808465	-	**136**	-	-	-	**79.9**
IGW-EX-B01-C	3/12/2018	N	11 - 11.5 (ft)	9179-031218-1350	109-1	L1808465	-	**38.7**	-	-	-	**77.4**
IGW-EX-B01-D	3/12/2018	N	7.8 - 8.3 (ft)	9179-031218-1335	109-1	L1808465	-	**30.9**	-	-	-	**80.9**
IGW-EX-B01-D	3/12/2018	N	11 - 11.5 (ft)	9179-031218-1355	109-1	L1808465	-	**22.6**	-	-	-	**81.7**
IGW-EX-B01-D	3/12/2018	FD	11 - 11.5 (ft)	9179-031218-0001	109-1	L1808465	-	**16.6**	-	-	-	**81.6**
IGW-EX-B02-A	3/13/2018	N	1.5 - 2 (ft)	9179-031318-1340	268-1	L1808569	-	-	-	**1030**	-	**83.7**
IGW-EX-B02-A	3/13/2018	N	3 - 3.5 (ft)	9179-031318-1345	268-1	L1808569	-	-	-	**668**	-	**86.4**
IGW-EX-B02-B	3/13/2018	N	1.5 - 2 (ft)	9179-031318-1350	268-1	L1808569	-	-	-	**343**	-	**81**
IGW-EX-B02-B	3/13/2018	N	3 - 3.5 (ft)	9179-031318-1355	268-1	L1808569	-	-	-	**328**	-	**78.9**
IGW-EX-B02-C	3/13/2018	N	1.5 - 2 (ft)	9179-031318-1415	268-1	L1808569	-	-	-	**1060**	-	**75**
IGW-EX-B02-C	3/13/2018	N	3 - 3.5 (ft)	9179-031318-1420	268-1	L1808569	-	-	-	**19.6**	-	**79.7**
IGW-EX-B02-D	3/13/2018	N	1.5 - 2 (ft)	9179-031318-1425	268-1	L1808569	-	-	-	**4210**	-	**83.4**
IGW-EX-B02-D	3/13/2018	FD	1.5 - 2 (ft)	9179-031318-0002	268-1	L1808569	-	-	-	**2400**	-	**83**
IGW-EX-B02-D	3/13/2018	N	3 - 3.5 (ft)	9179-031318-1430	268-1	L1808569	-	-	-	**1670**	-	**80.2**
IGW-EX-B04-B05-B06-F	3/13/2018	N	0.5 - 1 (ft)	9179-031318-0950	B9-2-100	L1808569	**25.4** [A]	-	-	-	-	**81**
IGW-EX-B04-B05-B06-F	3/13/2018	N	2.5 - 3 (ft)	9179-031318-0955	B9-2-100	L1808569	**9.1**	-	-	-	-	**80.2**

TABLE VIII
GROUP B EXCAVATIONS ANALYTICAL DATA SUMMARY
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NJ

						Chemical Name	Arsenic	Chromium	Lead	Nickel	TCE	Total Solids
						Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%
						IGWSSSRS	19	1540	328	9200	1	-
Location	**Sample Date**	**Sample Type**	**Sample Depth (bgs)**	**Sample Name**	**Previous Location**	**SDG**						
IGW-EX-B04-B05-B06-I	3/20/2018	N	0.5 - 1 (ft)	9179-032018-1430	B9-2-100, B9-2-101, B9-2-103	L1809609	**431** [A]	-	-	-	-	**75.8**
IGW-EX-B04-B05-B06-I	3/20/2018	N	2.5 - 3 (ft)	9179-032018-1435	B9-2-100, B9-2-101, B9-2-103	L1809609	**156** [A]	-	-	-	-	**80.3**
IGW-EX-B04-B05-B06-J	3/20/2018	N	0.5 - 1 (ft)	9179-032018-1440	B9-2-100, B9-2-101, B9-2-103	L1809609	**236** [A]	-	-	-	-	**80.2**
IGW-EX-B04-B05-B06-J	3/20/2018	N	2.5 - 3 (ft)	9179-032018-1445	B9-2-100, B9-2-101, B9-2-103	L1809609	**308** [A]	-	-	-	-	**82.4**
IGW-EX-B04-B05-B06-K	3/20/2018	N	3 - 3.5 (ft)	9179-032018-1450	B9-2-100, B9-2-101, B9-2-103	L1809609	**10**	-	-	-	-	**82.7**
IGW-EX-B07-A	3/9/2018	N	0.5 - 1 (ft)	9179-030918-0950	HSO17-A	L1808289	**83.3** [A]	-	-	-	-	**70.8**
IGW-EX-B07-A	3/9/2018	N	1 - 1.5 (ft)	9179-030918-0955	HSO17-A	L1808289	**82.8** [A]	-	-	-	-	**64.9**
IGW-EX-B07-B	3/9/2018	N	0.5 - 1 (ft)	9179-030918-1000	HSO17-A	L1808289	**4.25**	-	-	-	-	**74**
IGW-EX-B07-B	3/9/2018	N	1 - 1.5 (ft)	9179-030918-1005	HSO17-A	L1808289	**300** [A]	-	-	-	-	**59.2**
IGW-EX-B07-C	3/9/2018	N	0.5 - 1 (ft)	9179-030918-1010	HSO17-A	L1808289	**100** [A]	-	-	-	-	**56.3**
IGW-EX-B07-C	3/9/2018	N	1 - 1.5 (ft)	9179-030918-1015	HSO17-A	L1808289	**76.2** [A]	-	-	-	-	**62.6**
IGW-EX-B07-D	3/9/2018	N	0.5 - 1 (ft)	9179-030918-1020	HSO17-A	L1808289	**94.7** [A]	-	-	-	-	**50.8**
IGW-EX-B07-D	3/9/2018	N	1 - 1.5 (ft)	9179-030918-1025	HSO17-A	L1808289	**6.05**	-	-	-	-	**74.2**
IGW-EX-B08-D	3/5/2018	N	1.5 - 2 (ft)	9179-030518-0940	ISO6-102	L1807550	**19.3** [A]	-	-	-	-	**80.5**
IGW-EX-B08-D	3/5/2018	N	2 - 2.5 (ft)	9179-030518-0945	ISO6-102	L1807550	**15.7**	-	-	-	-	**82.9**
IGW-EX-B08-F	3/20/2018	N	1.5 - 2 (ft)	9179-032018-0925	ISO6-102	L1809609	**9.62**	-	-	-	-	**64.1**
IGW-EX-B08-F	3/20/2018	N	2 - 2.5 (ft)	9179-032018-0930	ISO6-102	L1809609	**19.2** [A]	-	-	-	-	**82**
IGW-EX-B08-G	3/20/2018	N	1.5 - 2 (ft)	9179-032018-0001	ISO6-102	L1809609	**8.66**	-	-	-	-	**71.6**
IGW-EX-B08-G	3/20/2018	N	1.5 - 2 (ft)	9179-032018-0935	ISO6-102	L1809609	**17.9**	-	-	-	-	**69.5**
IGW-EX-B08-G	3/20/2018	N	2 - 2.5 (ft)	9179-032018-0940	ISO6-102	L1809609	**20.2** [A]	-	-	-	-	**80.4**
IGW-EX-B08-H	3/26/2018	N	1.5 - 2 (ft)	9179-032618-0840	ISO6-102	L1810262	**7.17**	-	-	-	-	**80.9**
IGW-EX-B08-H	3/26/2018	N	2.5 - 3 (ft)	9179-032618-0845	ISO6-102	L1810262	**6.57**	-	-	-	-	**80.6**
IGW-EX-B08-I	3/26/2018	N	1.5 - 2 (ft)	9179-032618-0850	ISO6-102	L1810262	**6.81**	-	-	-	-	**85.2**
IGW-EX-B08-I	3/26/2018	N	2.5 - 3 (ft)	9179-032618-0855	ISO6-102	L1810262	**5**	-	-	-	-	**84.7**
IGW-EX-B08-J	3/26/2018	N	1.5 - 2 (ft)	9179-032618-0900	ISO6-102	L1810262	**6.21**	-	-	-	-	**73.1**
IGW-EX-B08-J	3/26/2018	N	2.5 - 3 (ft)	9179-032618-0905	ISO6-102	L1810262	**5.62**	-	-	-	-	**87.1**
IGW-EX-B09-B	3/5/2018	N	1.5 - 2 (ft)	9179-030518-1000	ISO6-103	L1807550	**12.5**	-	-	-	-	**77.8**
IGW-EX-B09-B	3/5/2018	N	2 - 2.5 (ft)	9179-030518-1005	ISO6-103	L1807550	**0.742**	-	-	-	-	**86.9**
IGW-EX-B09-E	3/19/2018	N	1 - 1.5 (ft)	9179-031918-1440	ISO6-103	L1809335	**16.7**	-	-	-	-	**82.1**
IGW-EX-B09-E	3/19/2018	N	1.5 - 2 (ft)	9179-031918-1445	ISO6-103	L1809335	**8.41**	-	-	-	-	**77.4**
IGW-EX-B09-F	3/19/2018	N	1 - 1.5 (ft)	9179-031918-1450	ISO6-103	L1809335	**49.5** [A]	-	-	-	-	**86.2**
IGW-EX-B09-F	3/19/2018	N	1.5 - 2 (ft)	9179-031918-1455	ISO6-103	L1809335	**27.6** [A]	-	-	-	-	**80.8**
IGW-EX-B09-G	3/19/2018	N	1 - 1.5 (ft)	9179-031918-1500	ISO6-103	L1809335	**80.5** [A]	-	-	-	-	**83.8**
IGW-EX-B09-G	3/19/2018	N	1.5 - 2 (ft)	9179-031918-1505	ISO6-103	L1809335	**52.1** [A]	-	-	-	-	**83.2**
IGW-EX-B09-I	3/19/2018	N	1 - 1.5 (ft)	9179-031918-1520	ISO6-103	L1809335	**20.4** [A]	-	-	-	-	**81.5**
IGW-EX-B09-I	3/19/2018	N	1.5 - 2 (ft)	9179-031918-1525	ISO6-103	L1809335	**5.79**	-	-	-	-	**73.3**
IGW-EX-B09-J	3/19/2018	N	1 - 1.5 (ft)	9179-031918-1530	ISO6-103	L1809335	**17.9**	-	-	-	-	**82.2**
IGW-EX-B09-J	3/19/2018	N	1.5 - 2 (ft)	9179-031918-1535	ISO6-103	L1809335	**14.2**	-	-	-	-	**78**
IGW-EX-B09-K	3/26/2018	N	1 - 1.5 (ft)	9179-032618-0920	ISO6-103	L1810262	**16**	-	-	-	-	**77.6**
IGW-EX-B09-K	3/26/2018	N	1.5 - 2 (ft)	9179-032618-0925	ISO6-103	L1810262	**5.92**	-	-	-	-	**80.2**
IGW-EX-B09-L	3/26/2018	N	1 - 1.5 (ft)	9179-032618-0930	ISO6-103	L1810262	**37.9** [A]	-	-	-	-	**78.7**
IGW-EX-B09-L	3/26/2018	N	1.5 - 2 (ft)	9179-032618-0935	ISO6-103	L1810262	**9.74**	-	-	-	-	**84.2**
IGW-EX-B09-M	3/26/2018	N	1 - 1.5 (ft)	9179-032618-0940	ISO6-103	L1810262	**8.73**	-	-	-	-	**82**
IGW-EX-B09-M	3/26/2018	FD	1 - 1.5 (ft)	9179-032618-0001	ISO6-103	L1810262	**10.3**	-	-	-	-	**81**
IGW-EX-B09-M	3/26/2018	N	1.5 - 2 (ft)	9179-032618-0945	ISO6-103	L1810262	**6.3**	-	-	-	-	**80.1**
IGW-EX-B11-A	3/12/2018	N	4 - 4.5 (ft)	9179-031218-1500	PL05-02	L1808465	-	-	-	**486**	-	**87.7**
IGW-EX-B11-A	3/12/2018	N	5.5 - 6 (ft)	9179-031218-1520	PL05-02	L1808465	-	-	-	**15.7**	-	**88.4**
IGW-EX-B11-B	3/12/2018	N	4 - 4.5 (ft)	9179-031218-1505	PL05-02	L1808465	-	-	-	**798**	-	**82.3**
IGW-EX-B11-B	3/12/2018	N	5.5 - 6 (ft)	9179-031218-1525	PL05-02	L1808465	-	-	-	**62.7**	-	**87**
IGW-EX-B11-C	3/12/2018	N	4 - 4.5 (ft)	9179-031218-1510	PL05-02	L1808465	-	-	-	**272**	-	**87.3**
IGW-EX-B11-C	3/12/2018	N	5.5 - 6 (ft)	9179-031218-1530	PL05-02	L1808465	-	-	-	**152**	-	**86.8**
IGW-EX-B11-D	3/12/2018	N	4 - 4.5 (ft)	9179-031218-1515	PL05-02	L1808465	-	-	-	**902**	-	**84.5**
IGW-EX-B11-D	3/12/2018	FD	4 - 4.5 (ft)	9179-031218-0002	PL05-02	L1808465	-	-	-	**316**	-	**81.7**
IGW-EX-B11-D	3/12/2018	N	5.5 - 6 (ft)	9179-031218-1535	PL05-02	L1808465	-	-	-	**29.4**	-	**85.2**

TABLE VIII
GROUP B EXCAVATIONS ANALYTICAL DATA SUMMARY
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NJ

						Chemical Name	Arsenic	Chromium	Lead	Nickel	TCE	Total Solids
						Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%
						IGWSSSRS	19	1540	328	9200	1	-
Location	**Sample Date**	**Sample Type**	**Sample Depth (bgs)**	**Sample Name**	**Previous Location**	**SDG**						
IGW-EX-B12-A	2/27/2018	N	8 - 8.5 (ft)	9179-022718-1245	SB-8-SO-11	L1806796	-	-	**88.1**	-	-	**82.2**
IGW-EX-B12-A	2/27/2018	N	8.5 - 9 (ft)	9179-022718-1247	SB-8-SO-11	L1806796	-	-	**59.8**	-	-	**80.7**
IGW-EX-B12-B	2/27/2018	N	8 - 8.5 (ft)	9179-022718-1250	SB-8-SO-11	L1806796	-	-	**954** [A]	-	-	**64.3**
IGW-EX-B12-B	2/27/2018	N	8.5 - 9 (ft)	9179-022718-1252	SB-8-SO-11	L1806796	-	-	**523** [A]	-	-	**74**
IGW-EX-B12-C	2/27/2018	N	8 - 8.5 (ft)	9179-022718-1255	SB-8-SO-11	L1806796	-	-	**570** [A]	-	-	**61**
IGW-EX-B12-C	2/27/2018	N	8.5 - 9 (ft)	9179-022718-1257	SB-8-SO-11	L1806796	-	-	**475** [A]	-	-	**56.2**
IGW-EX-B12-D	2/27/2018	N	8 - 8.5 (ft)	9179-022718-1300	SB-8-SO-11	L1806796	-	-	**265**	-	-	**74.9**
IGW-EX-B12-D	2/27/2018	N	8.5 - 9 (ft)	9179-022718-1305	SB-8-SO-11	L1806796	-	-	**143**	-	-	**65.2**
IGW-EX-B13-A	3/12/2018	N	0.5 - 1 (ft)	9179-031218-0840	SB-9-SO-4-A	L1808465	**13.6**	-	-	-	-	**78.3**
IGW-EX-B13-A	3/12/2018	N	2.5 - 3 (ft)	9179-031218-0845	SB-9-SO-4-A	L1808465	**5.89**	-	-	-	-	**78.4**
IGW-EX-B13-B	3/12/2018	N	0.5 - 1 (ft)	9179-031218-0850	SB-9-SO-4-A	L1808465	**34.2** [A]	-	-	-	-	**69.8**
IGW-EX-B13-B	3/12/2018	N	2.5 - 3 (ft)	9179-031218-0855	SB-9-SO-4-A	L1808465	**5.72**	-	-	-	-	**79**
IGW-EX-B13-C	3/12/2018	N	0.5 - 1 (ft)	9179-031218-0900	SB-9-SO-4-A	L1808465	**13.3**	-	-	-	-	**75.3**
IGW-EX-B13-C	3/12/2018	N	2.5 - 3 (ft)	9179-031218-0905	SB-9-SO-4-A	L1808465	**6.08**	-	-	-	-	**79.2**
IGW-EX-B13-D	3/12/2018	N	0.5 - 1 (ft)	9179-031218-0910	SB-9-SO-4-A	L1808465	**6.9**	-	-	-	-	**76**
IGW-EX-B13-D	3/12/2018	N	2.5 - 3 (ft)	9179-031218-0915	SB-9-SO-4-A	L1808465	**9.28**	-	-	-	-	**81.1**
IGW-EX-B14-E	3/20/2018	N	0.5 - 1 (ft)	9179-032018-1000	SB-9-SO-8-A-EX1C	L1809609	**9.4**	-	-	-	-	**80.7**
IGW-EX-B14-E	3/20/2018	N	1 - 1.5 (ft)	9179-032018-1005	SB-9-SO-8-A-EX1C	L1809609	**8.17**	-	-	-	-	**84.3**
IGW-EX-B14-F	3/20/2018	N	0.5 - 1 (ft)	9179-032018-1010	SB-9-SO-8-A-EX1C	L1809609	**333** [A]	-	-	-	-	**83.3**
IGW-EX-B14-F	3/20/2018	N	1 - 1.5 (ft)	9179-032018-1015	SB-9-SO-8-A-EX1C	L1809609	**374** [A]	-	-	-	-	**83.3**
IGW-EX-B14-G	3/20/2018	N	0.5 - 1 (ft)	9179-032018-1020	SB-9-SO-8-A-EX1C	L1809609	**6.98**	-	-	-	-	**86**
IGW-EX-B14-G	3/20/2018	N	1 - 1.5 (ft)	9179-032018-1025	SB-9-SO-8-A-EX1C	L1809609	**4.71**	-	-	-	-	**82.8**
IGW-EX-B14-H	3/20/2018	N	0.5 - 1 (ft)	9179-032018-1030	SB-9-SO-8-A-EX1C	L1809609	**123** [A]	-	-	-	-	**76.6**
IGW-EX-B14-H	3/20/2018	N	1 - 1.5 (ft)	9179-032018-1035	SB-9-SO-8-A-EX1C	L1809609	**443** [A]	-	-	-	-	**82.6**
IGW-EX-B15_A	3/6/2018	N	9 - 9.5 (ft)	9179-030618-0940	SB-10-SO-209	L1807701	-	-	**506** [A]	-	-	**64.3**
IGW-EX-B15_A	3/6/2018	N	10 - 10.5 (ft)	9179-030618-0945	SB-10-SO-209	L1807701	-	-	**215**	-	-	**80.3**
IGW-EX-B15_B	3/6/2018	N	9 - 9.5 (ft)	9179-030618-0950	SB-10-SO-209	L1807701	-	-	**21.4**	-	-	**78.6**
IGW-EX-B15_B	3/6/2018	N	10 - 10.5 (ft)	9179-030618-0955	SB-10-SO-209	L1807701	-	-	**642** [A]	-	-	**71.6**
IGW-EX-B15_C	3/6/2018	N	9 - 9.5 (ft)	9179-030618-1000	SB-10-SO-209	L1807701	-	-	**614** [A]	-	-	**67.8**
IGW-EX-B15_C	3/6/2018	N	10 - 10.5 (ft)	9179-030618-1005	SB-10-SO-209	L1807701	-	-	**424** [A]	-	-	**54.1**
IGW-EX-B15_D	3/6/2018	N	9 - 9.5 (ft)	9179-030618-1015	SB-10-SO-209	L1807701	-	-	**37.1**	-	-	**64.8**
IGW-EX-B15_D	3/6/2018	N	10 - 10.5 (ft)	9179-030618-1020	SB-10-SO-209	L1807701	-	-	**78.3**	-	-	**61**
IGW-EX-B15_D	3/6/2018	FD	10 - 10.5 (ft)	9179-030618-0001	SB-10-SO-209	L1807701	-	-	**71**	-	-	**62.1**
IGW-EX-B17-A	3/8/2018	N	0.5 - 1 (ft)	9179-030818-1050	SB-AOC09-2013-104	L1808072	**54.7** [A]	-	-	-	-	**56.8**
IGW-EX-B17-A	3/8/2018	N	1 - 1.5 (ft)	9179-030818-1055	SB-AOC09-2013-104	L1808072	**77.7** [A]	-	-	-	-	**45.5**
IGW-EX-B17-B	3/8/2018	N	0.5 - 1 (ft)	9179-030818-1100	SB-AOC09-2013-104	L1808072	**22.3** [A]	-	-	-	-	**65.1**
IGW-EX-B17-B	3/8/2018	N	1 - 1.5 (ft)	9179-030818-1105	SB-AOC09-2013-104	L1808072	**45.3** [A]	-	-	-	-	**67.8**
IGW-EX-B17-C	3/8/2018	N	0.5 - 1 (ft)	9179-030818-1110	SB-AOC09-2013-104	L1808072	**18.8**	-	-	-	-	**67.2**
IGW-EX-B17-C	3/8/2018	N	1 - 1.5 (ft)	9179-030818-1115	SB-AOC09-2013-104	L1808072	**10.7**	-	-	-	-	**66.9**
IGW-EX-B17-D	3/8/2018	N	0.5 - 1 (ft)	9179-030818-1120	SB-AOC09-2013-104	L1808072	**20.3** [A]	-	-	-	-	**53.2**
IGW-EX-B17-D	3/8/2018	FD	0.5 - 1 (ft)	9179-030818-0001	SB-AOC09-2013-104	L1808072	**73.8** [A]	-	-	-	-	**45.7**
IGW-EX-B17-D	3/8/2018	FD	0.5 - 1 (ft)	9179-030818-0002	SB-AOC09-2013-104	L1808072	**14.5**	-	-	-	-	**78.6**
IGW-EX-B17-D	3/8/2018	N	1 - 1.5 (ft)	9179-030818-1125	SB-AOC09-2013-104	L1808072	**11.7**	-	-	-	-	**55.4**
IGW-EX-B19-A	3/9/2018	N	0.5 - 1 (ft)	9179-030918-0905	SB-AOC09-2013-105	L1808289	**148** [A]	-	-	-	-	**78**
IGW-EX-B19-A	3/9/2018	N	1 - 1.5 (ft)	9179-030918-0907	SB-AOC09-2013-105	L1808289	**46.3** [A]	-	-	-	-	**74.7**
IGW-EX-B19-B	3/9/2018	N	0.5 - 1 (ft)	9179-030918-0910	SB-AOC09-2013-105	L1808289	**94.1** [A]	-	-	-	-	**68.4**
IGW-EX-B19-B	3/9/2018	N	1 - 1.5 (ft)	9179-030918-0912	SB-AOC09-2013-105	L1808289	**107** [A]	-	-	-	-	**69.7**
IGW-EX-B19-C	3/9/2018	N	0.5 - 1 (ft)	9179-030918-0915	SB-AOC09-2013-105	L1808289	**188** [A]	-	-	-	-	**75.6**
IGW-EX-B19-C	3/9/2018	N	1 - 1.5 (ft)	9179-030918-0917	SB-AOC09-2013-105	L1808289	**243** [A]	-	-	-	-	**61.3**
IGW-EX-B19-D	3/9/2018	N	0.5 - 1 (ft)	9179-030918-0920	SB-AOC09-2013-105	L1808289	**152** [A]	-	-	-	-	**61.7**
IGW-EX-B19-D	3/9/2018	N	1 - 1.5 (ft)	9179-030918-0922	SB-AOC09-2013-105	L1808289	**106** [A]	-	-	-	-	**66**
IGW-EX-B20-A	3/5/2018	N	4.5 - 5 (ft)	9179-030518-1330	SB-AOC10-2013-106	L1807550	-	-	**74.5**	-	-	**81**
IGW-EX-B20-A	3/5/2018	N	5.5 - 6 (ft)	9179-030518-1350	SB-AOC10-2013-106	L1807550	-	-	**166**	-	-	**73.9**
IGW-EX-B20-B	3/5/2018	N	4.5 - 5 (ft)	9179-030518-1335	SB-AOC10-2013-106	L1807550	-	-	**122**	-	-	**61.7**

TABLE VIII
GROUP B EXCAVATIONS ANALYTICAL DATA SUMMARY
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NJ

						Chemical Name	Arsenic	Chromium	Lead	Nickel	TCE	Total Solids
						Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%
						IGWSSSRS	19	1540	328	9200	1	-
Location	**Sample Date**	**Sample Type**	**Sample Depth (bgs)**	**Sample Name**	**Previous Location**	**SDG**						
IGW-EX-B20-B	3/5/2018	N	5.5 - 6 (ft)	9179-030518-1355	SB-AOC10-2013-106	L1807550	-	-	**59**	-	-	**79.8**
IGW-EX-B20-C	3/5/2018	N	4.5 - 5 (ft)	9179-030518-1340	SB-AOC10-2013-106	L1807550	-	-	**66**	-	-	**75.3**
IGW-EX-B20-C	3/5/2018	N	5.5 - 6 (ft)	9179-030518-1400	SB-AOC10-2013-106	L1807550	-	-	**47.8**	-	-	**76.9**
IGW-EX-B20-D	3/5/2018	N	4.5 - 5 (ft)	9179-030518-1345	SB-AOC10-2013-106	L1807550	-	-	**49.2**	-	-	**79.8**
IGW-EX-B20-D	3/5/2018	N	5.5 - 6 (ft)	9179-030518-1405	SB-AOC10-2013-106	L1807550	-	-	**56.8**	-	-	**78.8**
IGW-EX-B20-D	3/5/2018	FD	5.5 - 6 (ft)	9179-030518-0002	SB-AOC10-2013-106	L1807550	-	-	**80.3**	-	-	**80.5**
IGW-EX-B21-C	3/6/2018	N	8.5 - 9 (ft)	9179-030618-1100	SB-AOC10-2013-109	L1807701	-	-	**144**	-	-	**77.5**
IGW-EX-B21-C	3/6/2018	N	9 - 9.5 (ft)	9179-030618-1105	SB-AOC10-2013-109	L1807701	-	-	**216**	-	-	**73.9**
IGW-EX-B21-H	3/26/2018	N	8.5 - 9 (ft)	9179-032618-1520	SB-AOC10-2013-109	L1810262	-	-	**153**	-	-	**75**
IGW-EX-B21-H	3/26/2018	N	9 - 9.5 (ft)	9179-032618-1525	SB-AOC10-2013-109	L1810262	-	-	**123**	-	-	**72**
IGW-EX-B21-I	3/26/2018	N	8.5 - 9 (ft)	9179-032618-1500	SB-AOC10-2013-109	L1810262	-	-	**200**	-	-	**71.6**
IGW-EX-B21-I	3/26/2018	N	9 - 9.5 (ft)	9179-032618-1505	SB-AOC10-2013-109	L1810262	-	-	**92**	-	-	**74.2**
IGW-EX-B21-J	3/26/2018	N	8.5 - 9 (ft)	9179-032618-1510	SB-AOC10-2013-109	L1810262	-	-	**380** [A]	-	-	**70.1**
IGW-EX-B21-J	3/26/2018	N	9 - 9.5 (ft)	9179-032618-1515	SB-AOC10-2013-109	L1810262	-	-	**350** [A]	-	-	**77.2**
IGW-EX-B21-K	3/26/2018	N	8.5 - 9 (ft)	9179-032618-1530	SB-AOC10-2013-109	L1810262	-	-	**314**	-	-	**71.8**
IGW-EX-B21-K	3/26/2018	N	9 - 9.5 (ft)	9179-032618-1535	SB-AOC10-2013-109	L1810262	-	-	**146**	-	-	**68.5**
IGW-EX-B21-O	4/9/2018	N	8.5 - 9 (ft)	9179-040918-0830	SB-AOC10-2013-109	L1812223	-	-	**307**	-	-	**68**
IGW-EX-B21-O	4/9/2018	N	9 - 9.5 (ft)	9179-040918-0835	SB-AOC10-2013-109	L1812223	-	-	**211**	-	-	**68.3**
IGW-EX-B22-IR-01	4/4/2018	FD	-	9179-040418-0001	SB-AOC10-2013-115	L1811684	-	**7670** [A]	-	**18800** [A]	-	**25.9**
IGW-EX-B22-IR-01	4/4/2018	N	3 - 3.5 (ft)	9179-040418-1410	SB-AOC10-2013-115	L1811684	-	**2010** [A]	-	**5320**	-	**54.3**
IGW-EX-B22-IR-01	4/4/2018	N	5 - 5.5 (ft)	9179-040418-1415	SB-AOC10-2013-115	L1811684	-	**1610** [A]	-	**5420**	-	**61.2**
IGW-EX-B22-IR-06	4/4/2018	N	3 - 3.5 (ft)	9179-040418-1350	SB-AOC10-2013-115	L1811684	-	**9120** [A]	-	**19500** [A]	-	**25.9**
IGW-EX-B22-IR-06	4/4/2018	N	5 - 5.5 (ft)	9179-040418-1355	SB-AOC10-2013-115	L1811684	-	**8830** [A]	-	**18600** [A]	-	**34.7**
IGW-EX-B22-OR-01	4/4/2018	N	3 - 3.5 (ft)	9179-040418-1400	SB-AOC10-2013-115	L1811684	-	**15500** [A]	-	**40900** [A]	-	**27.6**
IGW-EX-B22-OR-01	4/4/2018	N	5 - 5.5 (ft)	9179-040418-1405	SB-AOC10-2013-115	L1811684	-	**9060** [A]	-	**21200** [A]	-	**26**
IGW-EX-B22-OR-04	4/4/2018	N	5 - 5.5 (ft)	9179-040418-1250	SB-AOC10-2013-115	L1811684	-	**610**	-	**702**	-	**69.4**
IGW-EX-B22-OR-04	4/4/2018	N	5.5 - 6 (ft)	9179-040418-1255	SB-AOC10-2013-115	L1811684	-	**774**	-	**1060**	-	**72.9**
IGW-EX-B22-OR-05	4/4/2018	N	3 - 3.5 (ft)	9179-040418-1300	SB-AOC10-2013-115	L1811684	-	**1450**	-	**3580**	-	**67**
IGW-EX-B22-OR-05	4/4/2018	N	5 - 5.5 (ft)	9179-040418-1305	SB-AOC10-2013-115	L1811684	-	**944**	-	**1840**	-	**73.7**
IGW-EX-B22-OR-06	4/4/2018	N	3 - 3.5 (ft)	9179-040418-1320	SB-AOC10-2013-115	L1811684	-	**1460**	-	**2490**	-	**73.1**
IGW-EX-B22-OR-06	4/4/2018	N	4 - 4.5 (ft)	9179-040418-1325	SB-AOC10-2013-115	L1811684	-	**305**	-	**177**	-	**75.5**
IGW-EX-B22-OR-07	4/4/2018	N	3 - 3.5 (ft)	9179-040418-1330	SB-AOC10-2013-115	L1811684	-	**230**	-	**424**	-	**77**
IGW-EX-B22-OR-07	4/4/2018	N	5 - 5.5 (ft)	9179-040418-1335	SB-AOC10-2013-115	L1811684	-	**923**	-	**1530**	-	**36.7**
IGW-EX-B22-OR-08	4/6/2018	N	3.5 - 4 (ft)	9179-040618-1500	SB-AOC10-2013-115	L1812048	-	**879**	-	**2310**	-	**77.6**
IGW-EX-B22-OR-08	4/6/2018	N	5 - 5.5 (ft)	9179-040618-1505	SB-AOC10-2013-115	L1812048	-	**2620** [A]	-	**5310**	-	**68.7**
IGW-EX-B22-OR-09	4/6/2018	N	3 - 3.5 (ft)	9179-040618-1520	SB-AOC10-2013-115	L1812048	-	**1480**	-	**1460**	-	**75.8**
IGW-EX-B22-OR-09	4/6/2018	N	5 - 5.5 (ft)	9179-040618-1525	SB-AOC10-2013-115	L1812048	-	**1030**	-	**813**	-	**67.9**
IGW-EX-B22-OR-11	4/10/2018	N	0.3 - 0.5 (ft)	9179-041018-1500	SB-AOC10-2013-115	L1812390	-	**343**	-	-	-	**76**
IGW-EX-B22-OR-11	4/10/2018	N	0.5 - 1 (ft)	9179-041018-1505	SB-AOC10-2013-115	L1812390	-	**614**	-	-	-	**71.4**
IGW-EX-B22-OR-12	4/10/2018	N	0.3 - 0.5 (ft)	9179-041018-1510	SB-AOC10-2013-115	L1812390	-	**416**	-	**702**	-	**78.6**
IGW-EX-B22-OR-12	4/10/2018	N	0.5 - 1 (ft)	9179-041018-1515	SB-AOC10-2013-115	L1812390	-	**249**	-	**366**	-	**76.1**
IGW-EX-B22-OR-13	4/10/2018	N	0.5 - 1 (ft)	9179-041018-1100	SB-AOC10-2013-115	L1812390	-	**1370**	-	-	-	**78.9**
IGW-EX-B22-OR-13	4/10/2018	FD	0.5 - 1 (ft)	9179-041018-0001	SB-AOC10-2013-115	L1812390	-	**1080**	-	-	-	**76.9**
IGW-EX-B22-OR-14	4/10/2018	N	1.5 - 2 (ft)	9179-041018-1530	SB-AOC10-2013-115	L1812390	-	**442**	-	**599**	-	**79**
IGW-EX-B22-OR-14	4/10/2018	N	3 - 3.5 (ft)	9179-041018-1535	SB-AOC10-2013-115	L1812390	-	**590**	-	**678**	-	**67**
IGW-EX-B23-A	3/13/2018	N	1 - 1.5 (ft)	9179-031318-1500	SR-1	L1808569	-	**138**	-	-	-	**74.6**
IGW-EX-B23-A	3/13/2018	N	2.5 - 3 (ft)	9179-031318-1505	SR-1	L1808569	-	**92.1**	-	-	-	**86**
IGW-EX-B23-C	3/13/2018	N	1 - 1.5 (ft)	9179-031318-1520	SR-1	L1808569	-	**569**	-	-	-	**84.6**
IGW-EX-B23-C	3/13/2018	N	2.5 - 3 (ft)	9179-031318-1525	SR-1	L1808569	-	**251**	-	-	-	**84.9**
IGW-EX-B23-D	3/13/2018	N	1 - 1.5 (ft)	9179-031318-1530	SR-1	L1808569	-	**45.1**	-	-	-	**82.6**
IGW-EX-B23-D	3/14/2018	N	2.5 - 3 (ft)	9179-031418-1030	SR-1	L1808687	**1.8 J**	**22.6**	-	-	-	**87.3**
IGW-EX-B23-E	3/19/2018	N	1 - 1.5 (ft)	9179-031918-1130	SR-1	L1809335	-	**230**	-	-	-	**73.6**
IGW-EX-B23-E	3/19/2018	N	1.5 - 2 (ft)	9179-031918-1135	SR-1	L1809335	-	**242**	-	-	-	**82.2**
IGW-EX-B23-F	3/19/2018	N	1 - 1.5 (ft)	9179-031918-1140	SR-1	L1809335	-	**76.1**	-	-	-	**84.7**
IGW-EX-B23-F	3/19/2018	N	1.5 - 2 (ft)	9179-031918-1145	SR-1	L1809335	-	**132**	-	-	-	**83.7**

TABLE VIII
GROUP B EXCAVATIONS ANALYTICAL DATA SUMMARY
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NJ

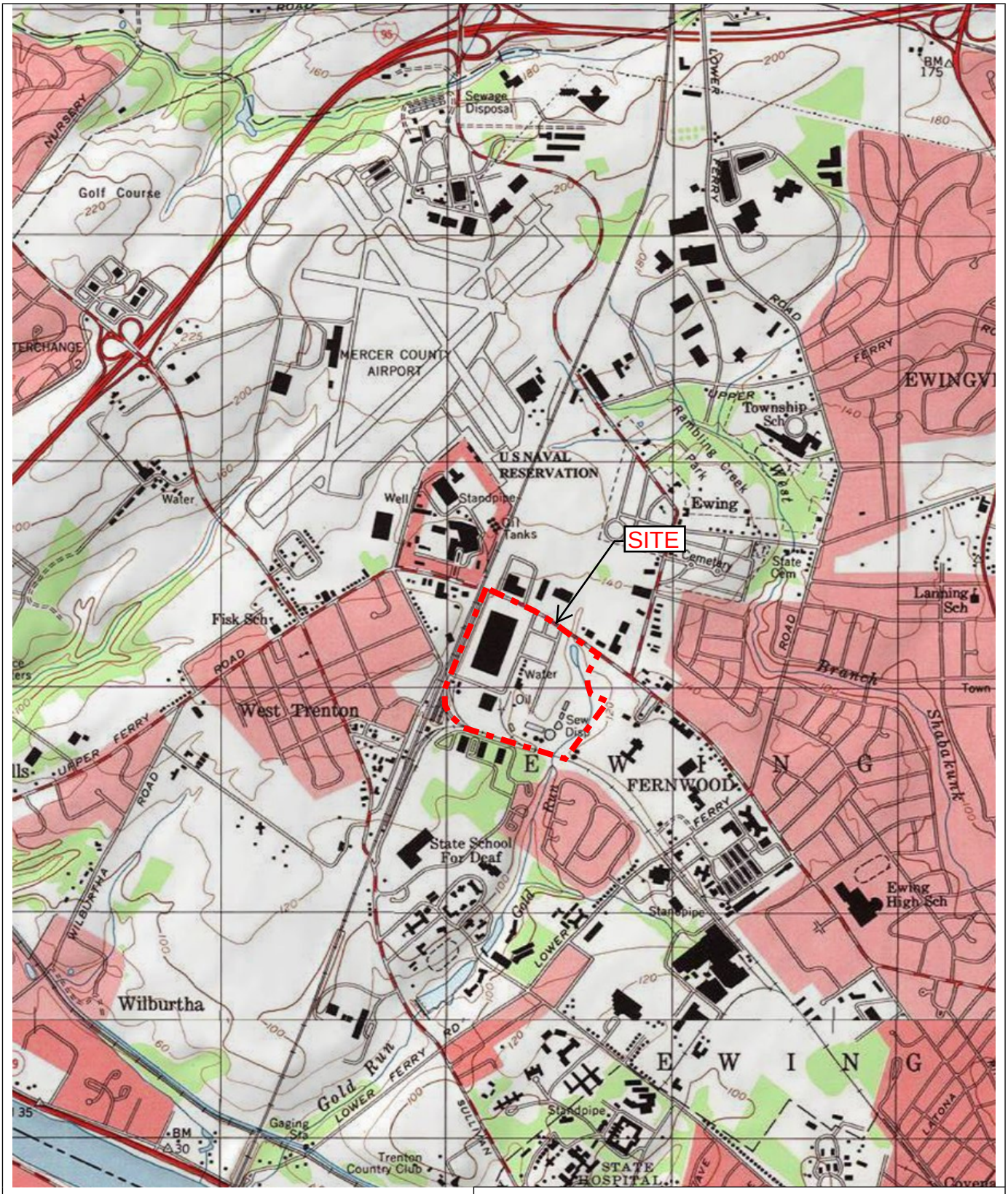
						Chemical Name	Arsenic	Chromium	Lead	Nickel	TCE	Total Solids
						Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%
						IGWSSSRS	19	1540	328	9200	1	-
Location	**Sample Date**	**Sample Type**	**Sample Depth (bgs)**	**Sample Name**	**Previous Location**	**SDG**						
IGW-EX-B23-G	3/19/2018	N	1 - 1.5 (ft)	9179-031918-1150	SR-1	L1809335	-	**131**	-	-	-	**86**
IGW-EX-B23-G	3/19/2018	N	1.5 - 2 (ft)	9179-031918-1155	SR-1	L1809335	-	**117**	-	-	-	**81.6**

Notes:
1. Results in red exceed the following criteria:
   [A] - Exceeds Site-Specific Impact to Groundwater SRS (IGWSSSRS)
2. ND - Not detected above reporting limit
3 Results in **bold** were detected.
4. Sample Type: N - Normal sample, FD - Field Duplicate
5. Sample locations that were excavated are not shown

TABLE IX
APPROXIMATE EXCAVATION VOLUMES
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Excavation ID	Area (ft^2)	Depth (ft)	Depth source	Volume (yd^3)	Weight (tons)
Group A					
IGW-EX-A01	99.88	9.1	Proposed	33.66	47.38
IGW-EX-A02 IGW-EX-A03	2236.29	10.3	Surveyed	853.10	1200.61
IGW-EX-A04	110.47	11.2	Surveyed	45.82	64.49
IGW-EX-A05	54.51	4.8	Surveyed	9.69	13.64
IGW-EX-A06	643.23	15.9	Surveyed	378.79	533.09
IGW-EX-A07	99.91	8.8	Proposed	32.56	45.83
IGW-EX-A08	75.49	12.7	Surveyed	35.51	49.97
Totals				**1389.14**	**1955.00**
Group B					
IGW-EX-B01	76.47	11.3	Surveyed	32.00	53.04
IGW-EX-B02	76.81	12.9	Surveyed	36.70	60.82
IGW-EX-B03	81.36	8	Surveyed	24.11	39.95
IGW-EX-B04 IGW-EX-B05 IGW-EX-B06	340.74	3.2	Surveyed	40.38	66.93
IGW-EX-B07	40.98	2.3	Surveyed		
IGW-EX-B17	78.64	2.4	Surveyed	17.18	28.48
IGW-EX-B18	36.43	2.6	Surveyed		
IGW-EX-B19	41.07	2.1	Surveyed		
IGW-EX-B08 IGW-EX-B09	361.46	3.1	Surveyed	41.50	68.78
IGW-EX-B10	29.09	8.2	Surveyed	8.83	14.64
IGW-EX-B11	63.12	10.1	Surveyed	23.61	39.13
IGW-EX-B12	72.07	8.6	Surveyed	22.96	38.04
IGW-EX-B13	44.33	7.1	Surveyed	11.66	19.32
IGW-EX-B14	265.96	1.8	Surveyed	17.73	29.38
IGW-EX-B15	66.21	10.6	Proposed	282.51	468.20
IGW-EX-B21	729.06	9.5	Proposed		
IGW-EX-B16	36.74	4	Surveyed	5.44	9.02
IGW-EX-B20	63.46	7.3	Surveyed	17.16	28.44
IGW-EX-B22	5319.4	5.8	Surveyed	1142.69	1893.75
IGW-EX-B23	106.65	10.4	Surveyed	41.08	68.08
Totals				**1765.55**	**2926.00**

FIGURES



MAP SOURCE: ESRI

SITE COORDINATES: 40°16'1"N, 74°48'32"W





HALEY ALDRICH

EWING TOWNSHIP INDUSRIAL LAND
EWING TOWNSHIP, NEW JERSEY

PROJECT LOCUS

APPROXIMATE SCALE: 1 IN = 2000 FT
June 2018

FIGURE 1

70613_1_LOCUS.PDF

PARKWAY AVENUE

(FORMERLY ZENKER ROAD)

SCOTCH

STREE

GOLD RUN

SILVIA

NOW OR FORMERLY EVELYN AVENUE
(50' R.O.W. - UNIMPROVED)

STONE AVENUE
(50' R.O.W. - UNIMPROVED)

RAILROAD TRACKS

WATER TANK

IGW-EX-B01 (109-1)

IGW-EX-B11 (PL05-02)

IGW-EX-A08 (SB-F10)

IGW-EX-B23 (SR-1)

IGW-EX-B02 (268-1)

IGW-EX-B03 (B6-201)

IGW-EX-B14 (SB-9-SO-9-A-EX1C)

IGW-EX-B16 (SB-AOC09-2013-102)

IGW-EX-B17 (SB-AOC09-2013-104)

IGW-EX-B19 (SB-AOC09-2013-105)

IGW-EX-B07 (HSO17-A)

IGW-EX-B04-B05-B06 (B9-2-100, B9-2-101, B9-2-103)

IGW-EX-B18 (SB-AOC09-2013-104-EX1A)

IGW-EX-B13 (SB-9-SO-4-A)

IGW-EX-B22 (SB-AOC10-2013-115)

IGW-EX-A07 (SB-10-SO-7-103)

IGW-EX-B20 (SB-AOC10-2013-106)

IGW-EX-B15 (SB-10-SO-209)

IGW-EX-B12 (SB-8-SO-11)

IGW-EX-A02-A03 (B8-6, B8-6-103)

IGW-EX-A01 (B8-4-100)

IGW-EX-B21 (SB-AOC10-2013-109)

IGW-EX-B08-B09 (SO6-102, SO6-103 ISO6-103)

IGW-EX-A05 (SB-7-SO-7)

IGW-EX-A04 (B8-8-2-102)

IGW-EX-A06 (SB-8-SO-14-100)

IGW-EX-B10 (MW-22)

MAP EXTENT

LEGEND

- Site_Boundary
- EXCAVATION EXTENT
- INDEX TOPOGRAPHIC CONTOUR (5
- INTERMEDIATE TOPOGRAPHIC CONTOUR (1
- FENCE
- WATER BODY
- PROPERTY BOUNDARY

NOTES

1. SITE PLAN AND ELEVATIONS BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, L.S., DATED 20 NOVEMBER 2002, REVISED 10 JULY 2015.

2. EXCAVATION EXTENTS BASED ON SURVEYS PERFORMED BY GERALD G. DEGROAT, L.S., DATED BETWEEN 5 MARCH AND 17 APRIL 2018.

N

0 110 220 330 440

SCALE IN FEET

HALEY ALDRICH

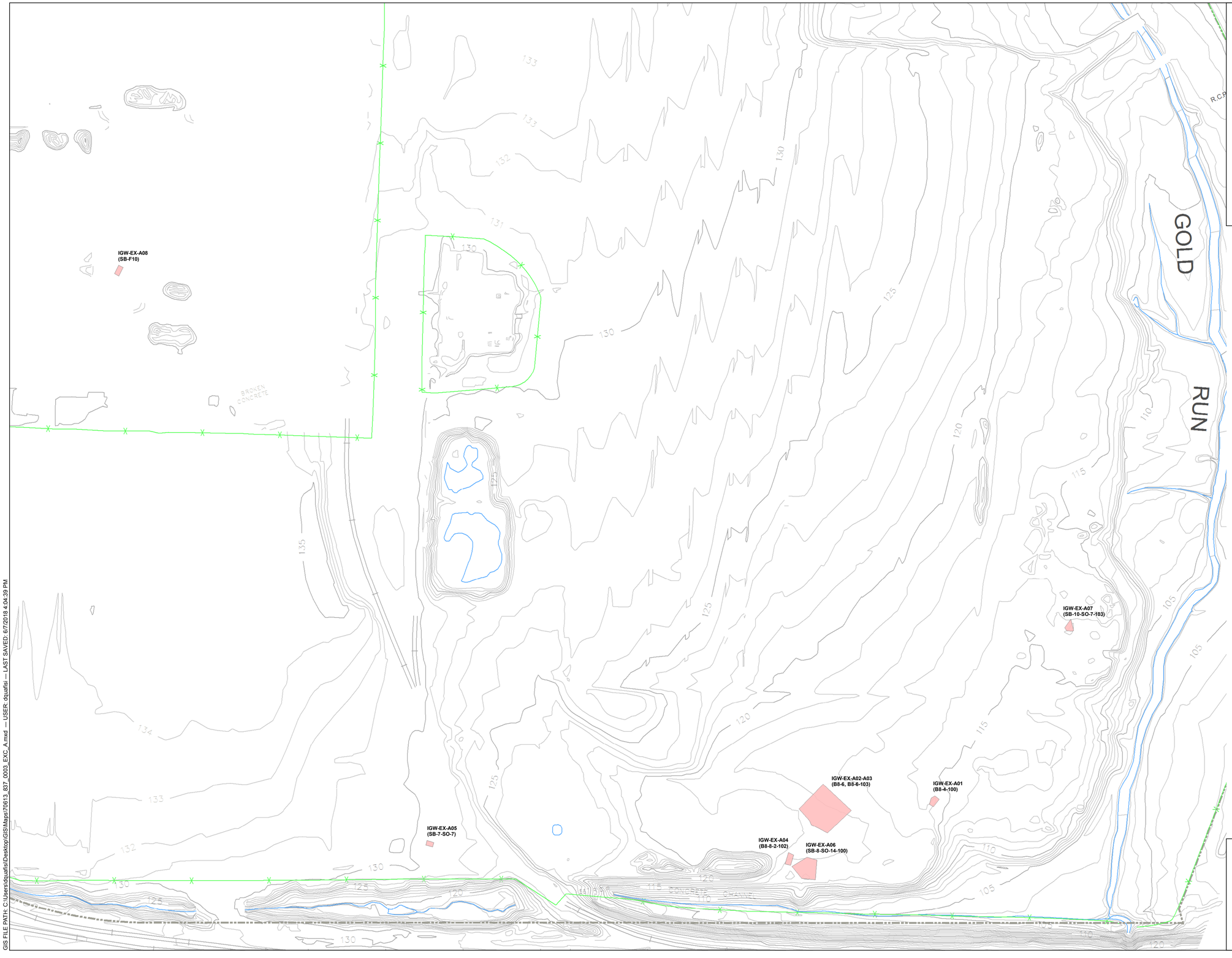
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

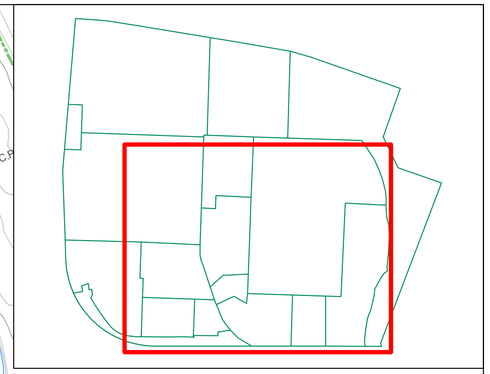
SITE PLAN

APRIL 2018

FIGURE 2

GIS FILE PATH: C:\Users\dquatlsi\Desktop\GIS\Maps\170613_837_0003_SITE_PLAN.mxd — USER: dquatlsi — LAST SAVED: 6/7/2018 4:08:15 PM





MAP EXTENT

LEGEND

- EXCAVATION EXTENT
- INDEX TOPOGRAPHIC CONTOUR (5 ft)
- INTERMEDIATE TOPOGRAPHIC CONTOUR (1 ft)
- FENCE
- WATER BODY
- PROPERTY BOUNDARY

NOTES

1. SITE PLAN AND ELEVATIONS BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, L.S., DATED 20 NOVEMBER 2002, REVISED 10 JULY 2015.

2. EXCAVATION EXTENTS BASED ON SURVEYS PERFORMED BY GERALD G. DEGROAT, L.S., DATED BETWEEN 5 MARCH AND 17 APRIL 2018.

0 60 120 180 240

SCALE IN FEET

HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

GROUP A EXCAVATIONS

APRIL 2018

FIGURE 3

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0003_EXC_A.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 4:04:39 PM

IGW-EX-B01
(109-1)

IGW-EX-B11
(PL05-02)

IGW-EX-B14
(SB-9-SO-8-A-EX1C)

IGW-EX-B16
(SB-AOC09-2013-102)

IGW-EX-B17
(SB-AOC09-2013-104)

IGW-EX-B18
(SB-AOC09-2013-104-EX1A)

IGW-EX-B19
(SB-AOC09-2013-105)

IGW-EX-B04-B05-B06
(B9-2-100,
B9-2-101, B9-2-103)

IGW-EX-B07
(HSO17-A)

IGW-EX-B13
(SB-9-SO-4-A)

IGW-EX-B23
(SR-1)

IGW-EX-B02
(268-1)

IGW-EX-B03
(B6-201)

IGW-EX-B22
(SB-AOC10-2013-115)

IGW-EX-B20
(SB-AOC10-2013-106)

IGW-EX-B21
(SB-AOC10-2013-109)

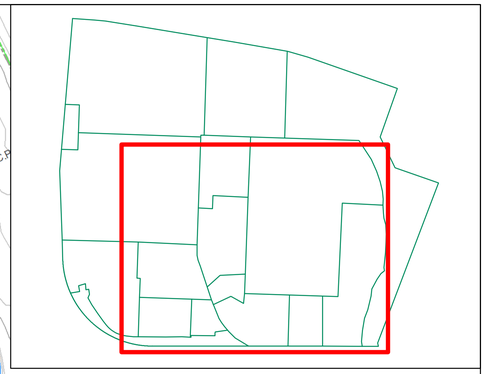
IGW-EX-B12
(SB-8-SO-11)

IGW-EX-B15
(SB-10-SO-209)

IGW-EX-B08-B09
(ISO6-102, ISO6-103
ISO6-103)

IGW-EX-B10
(MW-22)

GOLD RUN



MAP EXTENT

LEGEND

- EXCAVATION EXTENT
- INDEX TOPOGRAPHIC CONTOUR (5 ft)
- INTERMEDIATE TOPOGRAPHIC CONTOUR (1 ft)
- FENCE
- WATER BODY
- PROPERTY BOUNDARY

NOTES

1. SITE PLAN AND ELEVATIONS BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, L.S., DATED 20 NOVEMBER 2002, REVISED 10 JULY 2015.

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0 60 120 180 240
SCALE IN FEET

HALEY ALDRICH

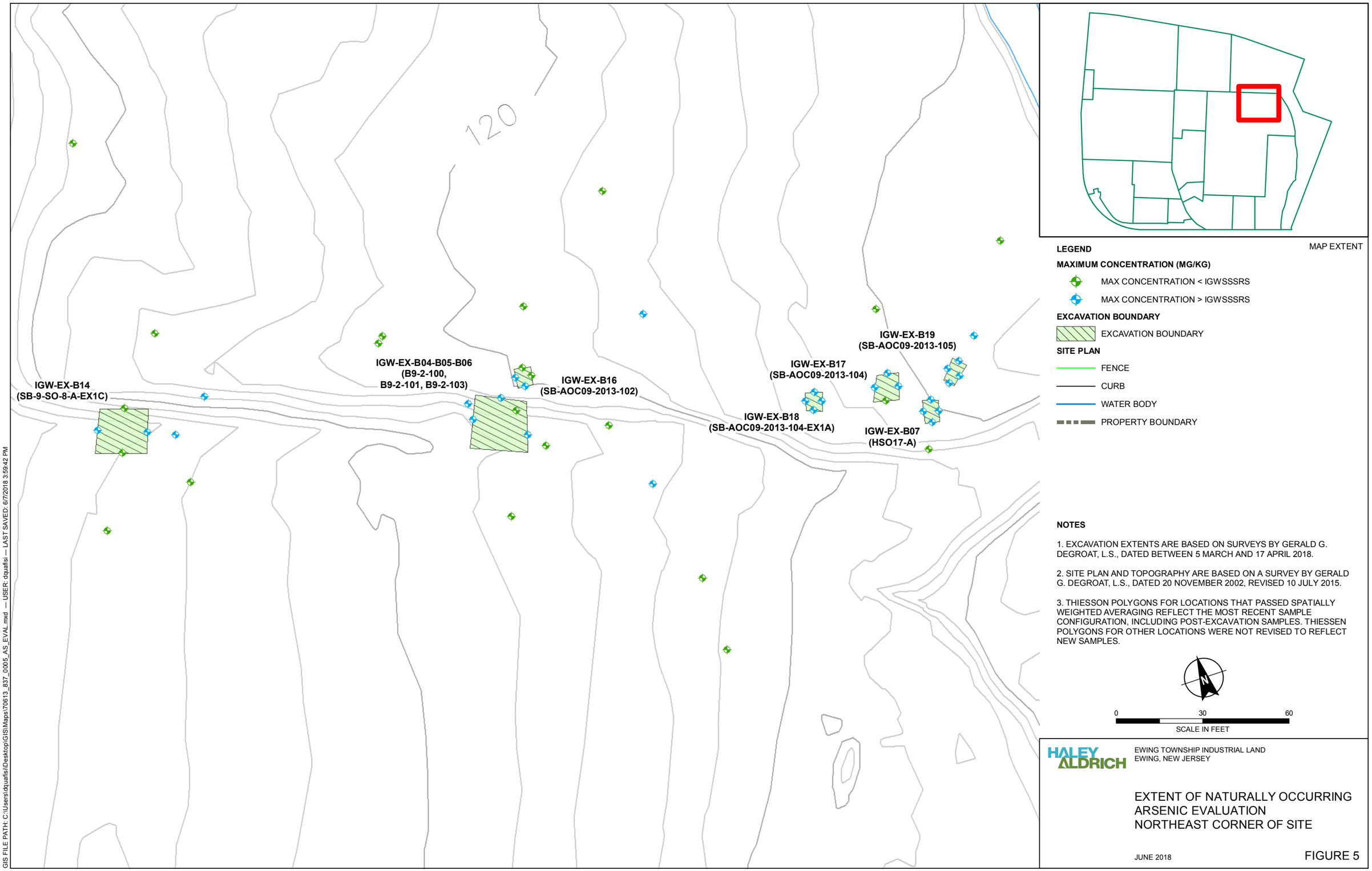
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

GROUP B EXCAVATIONS

APRIL 2018

FIGURE 4

GIS FILE PATH: C:\Users\dquafisi\Desktop\GISMaps\170613_837_0004_EXC_B.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 4:05:17 PM



MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

EXCAVATION BOUNDARY

- EXCAVATION BOUNDARY

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

1. EXCAVATION EXTENTS ARE BASED ON SURVEYS BY GERALD G. DEGROAT, L.S., DATED BETWEEN 5 MARCH AND 17 APRIL 2018.

2. SITE PLAN AND TOPOGRAPHY ARE BASED ON A SURVEY BY GERALD G. DEGROAT, L.S., DATED 20 NOVEMBER 2002, REVISED 10 JULY 2015.

3. THIESSON POLYGONS FOR LOCATIONS THAT PASSED SPATIALLY WEIGHTED AVERAGING REFLECT THE MOST RECENT SAMPLE CONFIGURATION, INCLUDING POST-EXCAVATION SAMPLES. THIESSEN POLYGONS FOR OTHER LOCATIONS WERE NOT REVISED TO REFLECT NEW SAMPLES.

N

0 30 60

SCALE IN FEET

HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXTENT OF NATURALLY OCCURRING ARSENIC EVALUATION NORTHEAST CORNER OF SITE

JUNE 2018

FIGURE 5

GIS FILE PATH: C:\Users\dquafis\Desktop\GIS\Maps\170613_837_0005_AS_EVAL.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 3:59:42 PM

IGW-EX-B22-OR-04

IGW-EX-B22-OR-07

IGW-EX-B22-OR-14

IGW-EX-B22-IR-04

IGW-EX-B22-OR-10

IGW-EX-B22-OR-13

IGW-EX-B22-OR-03

IGW-EX-B22-IR-05

IGW-EX-B22-IR-03

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IGW-EX-B22-OR-09

IGW-EX-B22-IR-02

IGW-EX-B22-OR-02

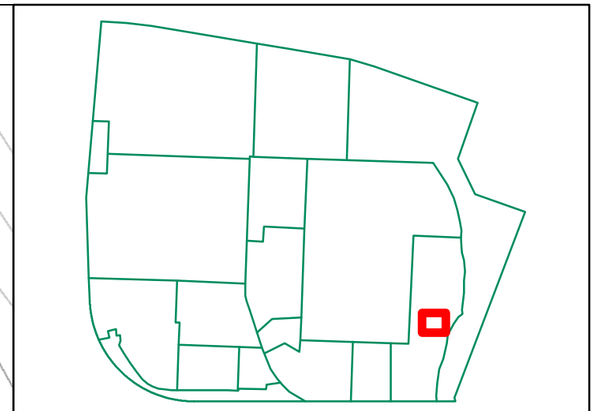
IGW-EX-B22-OR-12

IGW-EX-B22-IR-01

IGW-EX-B22-OR-08

IGW-EX-B22-OR-01

IGW-EX-B22-OR-11



MAP EXTENT

LEGEND

TEST PIT

- EXCAVATED 4 APRIL
- EXCAVATED 6 APRIL
- EXCAVATED 10 APRIL

EXCAVATION BOUNDARY

- COMPLETED EXCAVATION
- INITIAL EXCAVATION

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

1. EXCAVATION EXTENTS ARE BASED ON SURVEYS BY GERALD G. DEGROAT, L.S., DATED BETWEEN 5 MARCH AND 17 APRIL 2018.

2. SITE PLAN AND TOPOGRAPHY ARE BASED ON A SURVEY BY GERALD G. DEGROAT, L.S., DATED 20 NOVEMBER 2002, REVISED 10 JULY 2015.

3. LOCATION OF IGW-EX-B22-OR-10 IS APPROXIMATE.

N

0 10 20

SCALE IN FEET

HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IGW-EX-B22 TEST PIT LOCATIONS

JUNE 2018

FIGURE 6

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0006_B22_TESTPITS.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 4:01:21 PM

APPENDIX A

Case Inventory Document

Case Name: Ewing Township Industrial Land
PI #: 011336

IMPORTANT: *1) Do not delete or copy and paste across multiple columns because it can disrupt hidden equations.*
2) If pasting from a Word document, use the Paste option: ***Match Destination Formatting***
3) If the text turns ***red*** *you have exceeded the character limit for that column*

Case Inventory Document Version 1.4 02/23/17

AOC ID	AOC Type	AOC Description	Confirmed Contamination	AOC Status	Status Date	Incident #	DEP AOC Number	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
AOC-01A	Storage tank and appurtenance - State or Federal Regulated underground storage tank	Manufacturing Building (North)	Yes	RAR	6/15/2018	08-04-08-1326-08		Mixed Media	VO + PAHs	Metals + PCBs	Other	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation			Yes	Soil contamination related to former manufacturing processes and Diffuse Anthropogenic Pollution (DAP) adjacent to Parkway Avenue. A 3,300-gallon waste oil UST (E004) located on the west side of the Manufacturing Building was abandoned in place in 1988. A 1,000-gallon gasoline UST (E006) located off the northeastern corner of the Manufacturing Building was removed in April 2008. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-01B	Other areas of concern - Any area suspected of containing contaminants	East Parking Lot	Yes	RAR	6/15/2018			Mixed Media	VO + PAHs	Metals		Remediation Standards	Ingestion/Dermal	Ground Water				Yes	Manufacturing processes and support activities were never conducted in this area. Soil contamination related DAP adjacent to Parkway Avenue. The nature and extent of contamination is known in this area.
AOC-01C	Storage tank and appurtenance - State or Federal Regulated underground storage tank	Manufacturing Building (South)	Yes	RAR	6/15/2018	08-04-10-1241-12		Mixed Media	VO + BN	Metals + PCBs	Other	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation			Yes	Soil contamination related to former manufacturing processes. A 10,000-gallon gasoline UST (E005) located beneath the Solutions Storage Room was removed in April 2008. Targeted hot spot excavation activities were conducted in 2013 at former Plater Pit #5 for elevated levels of organic compounds and at former Plater Pit #6 for elevated levels of hexavalent chromium. Additional targeted hot spot excavation activities were conducted in 2018 for elevated levels of TCE, chromium, nickel, and arsenic. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-01D	Other areas of concern - Any area suspected of containing contaminants	Manufacturing Building (West)	Yes	RAR	6/15/2018			Mixed Media	VO + PAHs	Metals		Remediation Standards	Ingestion/Dermal	Ground Water	Other			Yes	A measurable amount of LNAPL (0.13 ft) was observed in August 2012 in recovery well RW-101. Multiple lines of evidence indicate a final remedy for LNAPL has been accomplished. LNAPL has been delineated within through the combined use of recovery wells and test pits. In addition, only a small amount of LNAPL (approximately 3.0-gallons) was able to be recovered from the test pits and recovery wells using absorbent socks and booms. Groundwater analytical data indicate that LNAPL did not adversely affect groundwater quality. Finally, no measurable LNAPL was observed in either the recovery wells or test pits since November 2013. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-02	Storage tank and appurtenance - Above ground storage tank	Above Ground Storage Tank Area/Primary Switch House	Yes	RAR	6/15/2018			Mixed Media	VO + PAHs	Metals + PCBs		Remediation Standards	Ingestion/Dermal	Ground Water	Excavation			Yes	Soil contamination related to four ASTs and the primary switch house. The ASTs included a 5,000-gallon paint thinner AST, a 4,000-gallon solvent AST for the storage of Aromatic 100 solvent, a 400,000-gallon water AST, and a liquid propane AST. The primary switch house consisted of three transformers. A discharge of transformer oil occurred during facility demolition between 2000 and 2002. Approximately 300 cubic yards of PCB contaminated soil was removed as Toxic Substance Control Act (TSCA) waste in 2004/2005. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-03	Storage tank and appurtenance - State or Federal Regulated underground storage tank	Powerhouse and Fuel Storage	Yes	RAR	6/15/2018			Mixed Media	VO + BN	Metals		Remediation Standards	Ingestion/Dermal	Ground Water	Excavation			Yes	Soil contamination related to the former powerhouse, ASTs, and USTs. The powerhouse originally contained three coal-powered steam boilers. This AOC contained three ASTs including a 500,000-gallon No. 6 fuel oil tank and two 30,000-gallon No. 6 fuel oil tanks. Three USTs were also located in AOC-03 including a 4000-gallon leaded gasoline UST (E007) removed in 1987, a 2,000-gallon unleaded gasoline UST (E001) removed in 1989, and a 2,500-gallon paint UST (A003) removed in 1989. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.

Case Name: Ewing Township Industrial Land
PI #: 011336

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3) If the text turns ***red*** *you have exceeded the character limit for that column*

Case Inventory Document Version 1.4 02/23/17

AOC ID	AOC Type	AOC Description	Confirmed Contamination	AOC Status	Status Date	Incident #	DEP AOC Number	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
AOC-04	Other areas of concern - Hazardous substance storage or handling area	Process Waste and Hazardous Waste Staging Area	Yes	RAR	6/15/2018			Mixed Media	VO + PAHs	Metals + PCBs		Remediation Standards	Ingestion/Dermal	Ground Water				Yes	Soil contamination related to the former process waste and hazardous waste staging area. A concrete pad was originally used and a bermed concrete secondary containment system was later constructed. A catch basin located in the southeast corner of the containment discharged runoff to the wastewater treatment system.Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-05	Storage and staging area - Storage pad and area	Raw Materials Storage and Maintenance Area	Yes	RAR	6/15/2018			Mixed Media	VO + PCBs	Metals		Remediation Standards	Ingestion/Dermal	Ground Water				Yes	Soil contamination related to the storage and maintenance building, originally used as a salvage and storage area and later included forklift and machine press repair, light equipment maintenance, electronics and pipe fitting shops, welding and sheet metal shops, inventory storage, a shipping/receiving area and a raw materials drum storage area. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-06	Storage and staging area - Storage pad and area	South Parking Lot/Paint Storage Building and Maintenance Garage	Yes	RAR	6/15/2018			Mixed Media	VO+ Metals			Remediation Standards	Ingestion/Dermal	Ground Water				Yes	Soil contamination related to the paint storage area and a vehicle maintenance garage. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-07A	Other areas of concern - Any area suspected of containing contaminants	Die Cast Storage Area, Former Raw Materials Storage Area	Yes	RAR	6/15/2018			Mixed Media	VO + PAHs	Metals		Remediation Standards	Ingestion/Dermal	Ground Water	Excavation			Yes	Soil contamination related to the former die storage area and the former raw materials drum storage area, a concrete pad where drums were stored prior to use. Targeted hot spot excavation activities were conducted in 2018 for elevated levels of arsenic. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-07B	Storage and staging area - Surface impoundment and lagoon	Former Sludge Drying Bed No. 5	Yes	RAR	6/15/2018			Mixed Media	VO + PAHs	Metals + PCBs	Other	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation			Yes	Soil contamination related to sludge generated during the wastewater treatment process dewatered in the asphalt-lined sludge drying bed and eventually disposed of off-site. Targeted hot spot excavation activities were conducted in 2018 for elevated levels of chromium. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-08A	Storage tank and appurtenance - State or Federal Regulated underground storage tank	Wastewater Treatment Plant Area: 11,000-Gallon Waste Oil AST, Former Incinerators, Southern Drainage Swale (East)	Yes	RAR	6/15/2018			Mixed Media	VO + BN	Metals + PCBs	Other	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation			Yes	Soil contamination related to the wastewater treatment building, process sewer structures, and the former trash incinerator. Oil/water separators, waste oil AST, and a 30,000-gallon waste oil UST (E002) removed in 1997 were also present as well as a transformer substation. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-08B	Discharge and disposal area - Waste water treatment systems/septic/seepage pit/dry well	Wastewater Treatment Plant Area: Former Sludge Settling Tanks and Neutralization Tanks, Southern Drainage Swale (East)	Yes	RAR	6/15/2018			Mixed Media	VO + BN	Metals + PCBs	Other	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation			Yes	Soil contamination related to the wastewater treatment building, neutralization tanks, and sludge settling tanks. Targeted hot spot excavation activities were conducted in 2018 for elevated levels of TCE and lead. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-09	Other areas of concern - Any area suspected of containing contaminants	Powerhouse Parking Lot and Equipment Storage Area	Yes	RAR	6/15/2018			Mixed Media	VO + BN	Metals + PCBs	Other	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation			Yes	Targeted hot spot excavation activities were conducted in 2013 for elevated levels of PCBs. AddiSoil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.The nature and extent of contamination is known in this area.

Case Name: Ewing Township Industrial Land
PI #: 011336

IMPORTANT: *1) Do not delete or copy and paste across multiple columns because it can disrupt hidden equations.*
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Case Inventory Document Version 1.4 02/23/17

AOC ID	AOC Type	AOC Description	Confirmed Contamination	AOC Status	Status Date	Incident #	DEP AOC Number	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
AOC-10	Storage and staging area - Surface impoundment and lagoon	Former Sludge Drying Beds Nos. 1 through 4, Southern Drainage Swale (East)	Yes	RAR	6/15/2018			Mixed Media	VO + BN	Metals + PCBs	Other	Remediation Standards	Ingestion/Dermal	Ground Water	Excavation			Yes	Soil contamination related to stored and dewatered sludge from wastewater treatment operations. Targeted hot spot excavation activities were conducted in 2018 for elevated levels of chromium, lead, and nickel. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-11	Drainage system and area - Storm water detention pond and fire pond	Former Gold Run Pond and Undeveloped Area	Yes	RAR	6/15/2018			Mixed Media	VO + PAHs	Metals + PCBs		Remediation Standards	Ingestion/Dermal	Sediment	Excavation			Yes	Soil contamination related DAP adjacent to Parkway Avenue. In 1996, 98 55-gallon drums of containing barium chromate waste were excavated from the undeveloped land located along eastern edge of the site. Gold Run Pond was constructed in the 1950s as a fire water retention pond. Contaminated sediment from upstream sources was removed to bedrock in 2011 and associated wetland areas were restored. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
AOC-12	Drainage system and area - Drainage swale and culvert	Southern Drainage Swale (West)	Yes	RAR	6/15/2018			Mixed Media	VO + PAHs	Metals		Remediation Standards	Ingestion/Dermal	Ground Water	Excavation			Yes	The nature and extent of contamination in sediment/wetland soil is known. The Southern Drainage Swale is a narrow storm water drainage feature created historically by the elevation of the railroad siding to the south and the filling of the site to the north. Contaminated sediment in the western portion of the Southern Drainage Swale was removed in 2011 and associated wetland areas were restored. Targeted hot spot excavation activities were conducted in 2018 for elevated levels of arsenic. Soil delineation is complete, and attainment for applicable standards was demonstrated as presented in the October 2016 Soil Remedial Action Report and the June 2018 Revised Remedial Action Report Addendum. No further remedial investigation or remedial action for soil is required; groundwater investigation and remediation is on-going.
Off-Site	Discharge and disposal area - Historic fill material area/other fill area	Parkway Avenue, and CSX Property and Historic Fill	Yes	RAR	6/15/2018			Soil	VO + PAHs	Metals		Remediation Standards	Ingestion/Dermal					Yes	Soil contamination related to the Parkway Avenue, and CSX property and mapped NJDEP Historic Fill. The nature and extent of contamination is known in this area.

APPENDIX B

NJDEP Forms

New Jersey Department of Environmental Protection
Site Remediation and Waste Management Program

AUTHORIZATION TO SUBMIT A REMEDIAL PHASE REPORT THROUGH NJDEP ONLINE

[Except Remedial Action Outcome (RAO)]

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Ewing Township Industrial Land

Street Address: 1445 Parkway Avenue

Municipality: Ewing Township (Township, Borough or City)

County: Mercer Zip Code: 08628

Program Interest (PI) Number(s): 011336

SECTION B. STATEMENT OF AUTHORIZATION TO SUBMIT THE REMEDIAL PHASE REPORT

I authorize the Licensed Site Remediation Professional, retained for this site pursuant to the Brownfield and Contaminated Site Remediation Act at N.J.S.A. 58:10B-1.3b, and named below to submit, as applicable, the remedial phase report listed below, updated Receptor Evaluation Form, and CEA/Well Restriction Fact Sheet Form, for the Program Interest Number noted above. I understand that I am assuming full responsibility that the information provided in the remedial phase report is true, accurate, and complete.

Name and Date of Remedial Phase Report:

2018 Revised Remedial Action Report Addendum

Authorized Licensed Site Remediation Professional (LSRP)

First Name: Amy Last Name: Murphy

LSRP License #: 586486

SECTION C. CERTIFICATION BY THE PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION

Full Name of Person Responsible for Conducting the Remediation: Revitalizing Auto Communities Environmental Response Trust

Representative First Name: Robert Representative Last Name: Hare

Mailing Address: 500 Woodward Avenue, Suite 2650

Municipality: Detroit State: Michigan Zip Code: 48226

Telephone Number: (313) 486-2908 Ext.: Fax: (248) 594-4829

Email Address: RHare@RACERTrust.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this Authorization and Report in accordance with the Administrative Requirements for the Remediation of Contaminated Sites at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date: 6-13-18

Name/Title: Robert W. Hare, P.E., CHMM/Cleanup Manager

Completed form should be uploaded to NJDEP Online.

New Jersey Department of Environmental Protection
Site Remediation Program

ALTERNATIVE OR NEW REMEDIATION STANDARD AND/OR SCREENING LEVEL APPLICATION FORM

Date Stamp
(For Department use only)

NOTE: This form shall be completed for all contaminants for which a direct contact exposure pathway alternative or new remediation standard, alternative impact to ground water soil remediation standard, alternative vapor intrusion screening level, ecological risk-based remediation goal, and/or ecological risk management decision goal is being implemented and/or requested for a site or area of concern. The form shall be used regardless of whether Department pre-approval is required.

SECTION A. SITE NAME AND LOCATION

Site Name: Ewing Township Industrial Land

List all AKAs: Former Delphi Lighting & Systems Division, GM Trenton, Turnstead Division of GM, Fisher Body Division

Street Address: 1445 Parkway Avenue

Municipality: Ewing Township (Township, Borough or City)

County: Mercer Zip Code: 08628

Program Interest (PI) Number(s): 011336

Case Tracking Number(s): E97070

SECTION B. REMEDIATION STANDARD NOTIFICATION SPREADSHEET

Complete and attach the Remediation Standard Notification Spreadsheet which can be found at: http://www.nj.gov/dep/srp/srra/forms/. This form will not be processed by the NJDEP if the spreadsheet is not attached.

SECTION C. PURPOSE FOR SUBMISSION

Pre-Approval Required:

- ☐ Ingestion/Dermal Alternative Soil Remediation Standard
- ☐ Inhalation Alternative Soil Remediation Standard (New Toxicity Data, New Modeling, etc.)
- ☐ Development of New Remediation Standard
- ☐ Ecological Risk Based Remediation Goal
- ☐ Ecological Risk Management Decision Goal

No Pre-Approval Required:

- ☐ Inhalation Alternative Soil Remediation Standard (Calculation Spreadsheet)
- ☒ Impact to Groundwater Alternative Soil Remediation Standard
- ☐ Vapor Intrusion Alternative Screening Level
- ☐ Development of New Vapor Intrusion Screening Level

SECTION D. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: Revitalizing Auto Communities Environmental Response Trust

Representative First Name: Robert Representative Last Name: Hare

Title: Cleanup Manager

Phone Number: (131) 486-2908 Ext: Fax: (248) 594-4829

Mailing Address: 500 Woodward Avenue, Suite 2650

City/Town: Detroit State: Michigan Zip Code: 48226

Email Address: RHare@RACERTrust.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date: 6-13-18

Name/Title: Robert W. Hare, P.E., CHMM/Cleanup Manager No changes to contact information since last submittal ☐

SECTION E. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 586486

First Name: Amy Last Name: Murphy

Phone Number: (973) 263-3900 Ext: Fax: (973) 263-2580

Mailing Address: 299 Cherry Hill Road, Suite 303

City/Town: Parsippany State: New Jersey Zip Code: 07054

Email Address: AMurphy@HaleyAldrich.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with N.J.S.A. 58:10C-14, and N.J.S.A. 58:10B-1.3b(1) and (2).

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☐ *directly oversaw and supervised all of the referenced remediation, and\or*

☒ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Date: 6/14/2018

LSRP Name/Title: Amy K. Murphy, LSRP / Sr. Project Manager

Company Name: Haley & Aldrich, Inc.

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

New Jersey Department of Environmental Protection
Site Remediation Program

REMEDIATION STANDARD NOTIFICATION SPREADSHEET

Instructions | Clear Form

Site Name: Ewing Township Industrial Land

Program Interest Number: 11336

ALTERNATIVE STANDARDS OR SCREENING LEVELS REQUESTED/IMPLEMENTED

Chemical Name	CAS	Concentration Range on Site (include units)	ARS / Screening Level	Scenario	Type of Standard	Default Remediation Standard / Screening level (include units)	Proposed Remediation Standard / Screening level (include units)
Chromium	7440-47-3	ND - 14000	Impact to Ground Water – SPLP	NA	New	--	1540
Lead	7439-92-1	ND - 9390	Impact to Ground Water – SPLP	NA	Alternative	90	328
Nickel	7440-02-0	ND - 36000	Impact to Ground Water – SPLP	NA	Alternative	48	9200
Zinc	7440-66-6	ND - 68000	Impact to Ground Water – SPLP	NA	Alternative	930	14200
Chlorobenzene	108-90-7	ND - 470	Impact to Ground Water – SPLP	NA	Alternative	0.6	83

New Jersey Department of Environmental Protection
Site Remediation Program

COVER/CERTIFICATION FORM

(Submit with Remedial Phase Report, Receptor Evaluation, and CEA Forms)

Date Stamp
(For Department use only)

SECTION A. SITE INFORMATION

Site Name: Ewing Township Industrial Land

AKAs: Former Delphi Lighting & Systems Division, GM Trenton, Turnstead Division of GM, Fisher Body Division

Street Address: 1445 Parkway Avenue

Municipality: Ewing Township (*Township, Borough or City*)

County: Mercer Zip Code: 08628

Program Interest (PI) Number(s): 011336

Case Tracking Number(s) for this submission: E97070

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2: 06/01/1986

State Plane Coordinates for a central location at the site: Easting: 406150.61 Northing: 521115.63

List current Municipal Block and Lot Numbers of the Site:

Block # 434	Lot #(s) 1.01	Block #	Lot #(s)
Block #	Lot #(s)	Block #	Lot #(s)
Block #	Lot #(s)	Block #	Lot #(s)
Block #	Lot #(s)	Block #	Lot #(s)

SECTION B. SUBMISSION STATUS

1. Indicate how the Electronic Data Deliverable (EDD) for this submission is being provided to the NJDEP:
   - ☒ Via Email at srpedd@dep.state.nj.us (attach NJDEP confirmation email); or
   - ☐ CD (attach to this submission)
   - ☐ Not Applicable – No EDD
2. Complete the following Submission and Permit Status Table:

Remedial Phase Documents	N/A	Included in this Submission	Previously Submitted	Date of Submission	Date of Revised Submission	Date of Previous NJDEP Approval	Date of Document Withdrawal
Preliminary Assessment Report	☐	☐	☒	05/01/1996			
Site Investigation Report	☐	☐	☒	05/01/1996			
Remedial Investigation Report	☐	☐	☒	06/19/2014	05/06/2016		
Remedial Action Work Plan	☐	☐	☒	07/01/1997	12/01/2008 ,	11/03/2017	
Remedial Action Report	☐	☒	☒	10/19/2016			
Response Action Outcome	☒	☐	☐				
Other Submissions							
Alternative Soil Remediation Standard and/or Screening level Application Form	☐	☒	☐				
Case Inventory Document		☒					
Classification Exception Area / Well Restriction Area (CEA/WRA)	☐	☐	☒	05/06/2016			
Discharge to Ground Water Permit by Rule Authorization Request	☒	☐	☐				

IEC Engineered System Response Action Report	☒	☐	☐				
Immediate Environmental Concern Report	☒	☐	☐				
LNAPL Interim Remedial Measure Report	☐	☐	☒	03/19/2014			
Public Notification	☐	☐	☒	08/28/2009	01/22/2013		
Receptor Evaluation	☐	☐	☒	04/28/2011	10/19/2016		
Technical Impracticability Determination	☒	☐	☐				
Vapor Concern Mitigation Report	☒	☐	☐				
Permit Application – list:	☒						
Flood Hazard Area Individual Permit		☐	☒	07/11/2011			07/10/2016
Freshwater Wetlands General Permit		☐	☒	07/11/2011			07/10/2016
Soil Remedial Action Permit RAP160001		☐	☒	10/19/2016		11/01/2016	
		☐	☐				
Radionuclide Remedial Action Report	☒	☐	☐				
Radionuclide Remedial Action Workplan	☒	☐	☐				
Radionuclide Remedial Investigation Report	☒	☐	☐				
Radionuclide Remedial Investigation Workplan	☒	☐	☐				

SECTION C. SITE USE

Current Site Use: (*check all that apply*)

- ☒ Industrial
- ☐ Residential
- ☐ Commercial
- ☐ School or child care
- ☐ Agricultural
- ☐ Park or recreational use
- ☒ Vacant
- ☐ Government
- ☐ Other: _____

Intended Future Site Use, if known: (*check all that apply*)

- ☐ Industrial
- ☒ Residential
- ☒ Commercial
- ☐ School or child care
- ☐ Park or recreational use
- ☐ Vacant
- ☐ Government
- ☐ Future site use unknown
- ☐ Other: _____

SECTION D. CASE TYPE: (*check all that apply*)

- ☐ Administrative Consent Order (ACO)
- ☐ Brownfield Development Area (BDA)
- ☐ Child Care Facility
- ☐ Chrome Site (Chromate chemical production waste)
- ☐ Coal Gas
- ☐ Due Diligence with RAO
- ☐ Hazardous Discharge Remediation Fund (HDSRF) Grant/Loan
- ☒ ISRA
- ☐ Landfill (SRP subject only)
- ☒ Regulated Underground Storage Tank (UST)
- ☐ Remediation Agreement (RA)/Remediation Certification
- ☐ School Development Authority (SDA)
- ☐ School facility
- ☐ Spill Act Defense – Government Entity
- ☐ Spill Act Discharge
- ☐ UST Grant/Loan
- ☐ Other: _____

Federal Case (*check all that apply*)

☐ RCRA GPRA 2020 ☐ CERCLA/NPL ☐ USDOD ☐ USDOE

1. Is the party conducting remediation a government entity? ..... ☐ Yes ☒ No

   If "Yes," check one: ☐ Federal ☐ State ☐ Municipal ☐ County

SECTION E. PUBLIC FUNDS

Did the remediation utilize public funds? ..... ☐ Yes ☒ No

If "Yes," check applicable:

- ☐ UST Grant
- ☐ HDSRF Grant
- ☐ Spill Fund
- ☐ UST Loan
- ☐ HDSRF Loan
- ☐ Schools Development Authority
- ☐ Brownfield Reimbursement Program
- ☐ Landfill Reimbursement Program
- ☐ Environmental Infrastructure Trust

SECTION F. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: Revitalizing Auto Communities Environmental Response Trust

Representative First Name: Robert Representative Last Name: Hare

Title: Cleanup Manager

Phone Number: (131) 486-2908 Ext: Fax: (248) 594-4829

Mailing Address: 500 Woodward Avenue, Suite 2650

City/Town: Detroit State: Michigan Zip Code: 48226

Email Address: RHare@RACERTrust.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date: 6-13-18

Name/Title: Robert W. Hare, P.E., CHMM/Cleanup Manager

For CEA Submissions:

☐ Check this box if the person above is also the property owner of the site or their representative. If this person is not the site property owner, please ensure the site property owner's name and address is in the first line of the table in Section E.2 of the Classification Exception Area / Well Restriction Area (CEA/WRA) Fact Sheet Form.

SECTION G. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 586486

First Name: Amy Last Name: Murphy

Phone Number: (973) 263-3900 Ext: Fax: (973) 263-2580

Mailing Address: 299 Cherry Hill Road, Suite 303

City/Town: Parsippany State: New Jersey Zip Code: 07054

Email Address: AMurphy@HaleyAldrich.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with N.J.S.A. 58:10C-14, and N.J.S.A. 58:10B-1.3b(1) and (2).

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☐ *directly oversaw and supervised all of the referenced remediation, and\or*

☒ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Date: 6/14/2018

LSRP Name/Title: Amy K. Murphy, LSRP / Sr. Project Manager

Company Name: Haley & Aldrich, Inc.

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

APPENDIX C

NJDEP Correspondence

M E M O R A N D U M

TO: MATT TURNER, INPSECTOR, BIR
GERRY HAHN, INSPECTOR, BIR

FROM: GREG NEUMANN, TECHNICAL COORDINATOR, BEERA/EES-2

SITE: **Delphi/Ewing (Racer Trust)**

PI#: 011336
Referral Type: RAR Addendum
Document Date: 11/17/2017
Referral Date: 11/20/2017
Completion Date: 12/13/2017

COMMENTS:
The following comments are in response to your request for the review of the Haley and Aldrich email attachment dated 11/17/2017 from LSRP Amy Murphy. It is stated that this response addresses the NJDEP email correspondence of 10/17/2017; is a follow-up to the 9/21/2017 meeting at the NJDEP as well as the 11/1/2017 conference call.

This review is limited to the technical information associated with the implementation of spatially weighted averaging (SWA) presented on pgs. 6 – 7 of the document.

Pg. 6 contains a section titled **Proposed Addendum to the Soil Remedial Action Workplan to Address Outstanding IGW Issues**. This section describes how SWA will be implemented based on several "site conditions or factors" identified by the LSPR in the following excerpt:

The preceding analysis identified 31 soil sample locations where excavation is required to address the IGW pathway. As summarized in Table 6, these locations represent a wide range of conditions. These will be addressed as follows:

• Locations where a Thiessen Polygon drives the determination that the functional area exceeds IGWSSSRS:

– If the entire Thiessen polygon is smaller than 650 cubic yards, then it may be excavated and no confirmation samples will be collected per Attainment/Compliance Guidance or the excavation limits may be reduced by collecting additional samples to a reduced excavation footprint. These areas are identified as ***Group A excavations****.*

– If the Thiessen Polygon is larger than 650 cubic yards, a smaller area, approximately five-feet by five-feet in size, may be excavated and additional confirmation samples will be collected at a rate of two samples (shallow and deep) per sidewall, corresponding to depths of the sample exceedance and biased to potential impacts, if present. These areas are identified as ***Group B* excavations****.*

• Locations where the local delineation is insufficient to conduct the functional analysis, a smaller area, approximately five-feet by five-feet in size, may be excavated and additional confirmation samples will be collected at a rate of two samples (shallow and deep) per sidewall, corresponding to depths of the sample exceedance and biased to potential impacts, if present. These areas are identified as ***Group B excavations****.*

Figure 1 shows the proposed excavation areas and group designation for proposed excavation type. Table 6 summarizes the anticipated excavation volume. In excavations where the Thiessen Polygon is not fully removed, the results of the confirmation samples will initially be compared using the 75 percent/10x Procedure as detailed in the Attainment/Compliance Guidance, whereby if 75 percent of all post-remedial samples are below the applicable soil remediation standard and none of the remaining samples exceed the applicable standard by an order of magnitude (10x), the remedial action is considered to have met the remedial objective and no further action is necessary.

If the results do not demonstrate the location to be below IGWSSSRS, then further functional area evaluation may be conducted. If the results continue to demonstrate that the location is above IGWSSSRS, then additional excavation and confirmation samples will be conducted. Because the proposed excavation will be partially based on confirmation sampling and field observations, the volume may change from what is presented in Table 6. The results of the excavation activities, confirmation,and the above demonstration with the amended soil sample results will be summarized in a Soil RAR Addendum.

BEERA Recommendation:
It is BEERAs understanding that the attainment methods (mean, 95% UCL, SWA) proposed for implementation in this report were designed to identify "hot spots/worst case contaminant concentrations," such that if remediated, would result in a significant contaminant mass removal relative to the impact to ground water pathway, which in turn will ultimately decrease the duration of the overall site groundwater remedy.

Based on the above, BEERA is in agreement that the remedial actions proposed will results in the removal of a significant mass of soil contamination as it relates to the impact to groundwater pathway. However, the following issues shall be noted and/or addressed by Delphi/Ewing:

1.The NJDEP questions the validity and efficiency of the proposal to conduct 5'x5' "mini excavations" within a polygon, along with confirmation sampling, for polygons requiring remediation that are greater than 650 cu yards. The Attainment Guidance did not envision the use of this "mini excavation" approach. Additionally, the cost associated with the sampling and analysis of the confirmation samples, especially if multiple rounds are required to achieve delineation, may approach that needed to remediate the entire polygon in some instances.

2) The Attainment Guidance does not contain a provision to utilize the 75%/10 methodology **as a part** of a spatially weighted average attainment approach. When doing so, Ewing/Delphi must comply with the confirmation sample frequencies established in Section A4.0 of the Attainment Guidance document.

3) During the meeting of 9/21/2017, it was agreed upon that Ewing/Delphi was going to address the Impact to Groundwater Pathway, and in order to do so, would be proposing “hot spot” removal actions that may not comply fully with current guidance (deviations); and would document this approach with a future submission (RAW Addendum/RAR or next Key Document). Delphi/Ewing shall ensure that a rationale is provided to support the deviations proposed in this document.

Delphi Interior/Racer Trust, PI 011336
Response to Friday, November 17, 2017 Email

"Proposals as outlined in the "Immobile Constituent Evaluation" are generally acceptable. However, the last paragraph states "The locations where the immobile constituents do not need to be addressed based on the above analysis are identified on the Table 4 and Attachment D; the remaining locations are addressed further below."

Attachment D is somewhat confusing in that it is unclear whether the red dots in areas of Lead GW contamination at 15 ppb are to be further averaged via Thiessen polygons. From the figures in Attachment E, this is assumed to be the case.

In summary, the proposal is generally acceptable for the Lead Immobile Constituent Evaluation."

Swati Toppin, Ph.D
Research Scientist
NJDEP/BEERA
401 East State St,
Mail Code 401-05W
P.O. Box 420
Trenton, NJ 08625-0420
Ph. (609) 633-7413
Swati.Toppin@dep.nj.gov

Quafisi, Dimitri

From: Murphy, Amy
Sent: Tuesday, March 27, 2018 3:24 PM
To: Hagen, David; Putz, Daniel; Quafisi, Dimitri
Subject: FW: Delphi Interior/Racer Trust, PI 011336
Attachments: Response to 11.17.2017 email.docx; Delphi Immoble Chem Review 12-1-17.rtf

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From: Turner, Matthew <Matthew.Turner@dep.nj.gov>
Sent: Tuesday, March 27, 2018 3:22 PM
To: Murphy, Amy <AMurphy@haleyaldrich.com>; Robert Hare (rhare@racertrust.org) (rhare@racertrust.org) <rhare@racertrust.org>
Cc: Neumann, Greg <Greg.Neumann@dep.nj.gov>; Toppin, Swati <Swati.Toppin@dep.nj.gov>; Sanders, Paul <Paul.Sanders@dep.nj.gov>; Kloo, Ken <Ken.Kloo@dep.nj.gov>; Schick, Kevin <Kevin.Schick@dep.nj.gov>; Hahn, Gerald <Gerald.Hahn@dep.nj.gov>; Doyon, John <John.Doyon@dep.nj.gov>
Subject: Delphi Interior/Racer Trust, PI 011336

Amy

The NJDEP has completed a review of your response letter received by email on November 20, 2017 which addressed the NJDEP comments that were sent to you by email on October 17, 2017. You can find two attachments generated by Swati Toppin and Greg Neumann that outline soil impact to ground water issues on the Delphi Site. Please review the attachments and address the issues outlined and the additional field work performed within an summary report to the RAR. As discussed in the September 27, 2017 meeting between the NJDEP and RACER Trust as well as in subsequent telephone conversations, the summary report must outline any deviations from guidance or variances from regulations that were utilized to complete soil work for the impact to ground water pathway at the site. The NJDEP requests that you confirm receipt of this E-mail.

If you have any questions please feel free to contact me at 609-984-1742.

Thanks
Matt

Matthew Turner
Bureau of Inspection and Review
401 E. State Street
P.O. Box 420
Mail Code 401-05D
Trenton, NJ 08625-0420
609-984-1742

APPENDIX D

Well Development Table

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-1A	MW-1A	MW-1A	MW-1A	MW-1A	MW-1A	MW-2	MW-2	MW-2	MW-2
Sample ID	Groundwater	MW1A-032415-0921	MW1A-060915-1107	MW-1A-091615-0917	MW1A-121515-1352	MW1A-302116-1311	MW1A-101816-1426	MW02-032415-0951	MW02-060915-0954	MW02-091515-0931	MW02-121515-0927
Lab Sample ID	Quality	460-92177-5	460-96192-3	460-101215-6	460-106412-10	460-110804-9	460-122278-9	460-92177-6	460-96192-2	460-101265-4	460-106412-4
Sample Date	Standard	03/24/2015	06/09/2015	09/16/2015	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/09/2015	09/15/2015	12/15/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.271**	**0.386**	**0.359**	**0.331**	**0.354**	**0.342**	**0.688**	**0.603**	**0.755**	**0.528**
Dissolved Oxygen, Field (mg/L)	-	**0.28**	**0.16**	**0.97**	**0.61**	**0.38**	**0.38**	**0.55**	**0.22**	**0.61**	**0.84**
ORP, Field (mV)	-	**-100.7**	**-44.5**	**-49.1**	**4.6**	**-33.1**	**-11.7**	**14.8**	**93**	**57.6**	**-37.2**
pH, Field (s.u)	-	**6.3**	**6.22**	**6.34**	**5.84**	**6.15**	**6.13**	**6.67**	**6.6**	**6.37**	**6.46**
Temperature (Deg C)	-	**12.03**	**14.1**	**14.4**	**14.19**	**12.41**	**15.19**	**6.35**	**15**	**16.3**	**14.28**
Turbidity, Field (NTU)	-	**30.2**	**19.7**	**10.8**	**14.3**	**38.6**	**6.11**	**1.29**	**3**	**107**	**4.27**
Inorganic Compounds - Total (ug/L)											
Cyanide	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	**2.6 J**	ND (10) F1	ND (10)	ND (10)	ND (10)
Antimony, Total	6	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	**1.1 J**	ND (2)	**1.8 J**	ND (2)
Arsenic, Total	3	ND (2)	**1.1 J**	**0.93 J**	**1 J**	**1.1 J**	ND (2)	ND (2)	ND (2)	**0.89 J**	ND (2)
Barium, Total	6000	**103**	**104**	**95.5**	**106**	**99.2**	**101**	**53.1**	**40.7**	**76.3**	**32.1**
Beryllium, Total	1	**0.47 J**	**0.41 J**	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)
Cadmium, Total	4	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	**10.5** [A]	**6.8** [A]	**15.1** [A]	**0.83 J**
Chromium, Total	70	ND (4)	**1.6 J**	ND (4)	**2.1 J**	ND (4)	ND (4)	**3.4 J**	**2.5 J**	**22**	**1.7 J**
Chromium VI (Hexavalent), Total	NC	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	100	**5.9**	**6.8**	**21**	**10.7**	**5.3**	**2.9 J**	ND (4)	ND (4)	ND (4)	ND (4)
Copper, Total	1300	**2.9 J**	**3 J**	**1.8 J**	**4.1**	ND (4)	ND (4)	**5.1**	**3.3 J**	**15.7**	**2 J**
Lead, Total	5	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	**11.2** [A]	ND (1.2)
Manganese, Total	50	**3580** [A]	**3680** [A]	**3390** [A]	**3710** [A]	**3720** [A]	**3750** [A]	**175** [A]	**523** [A]	**1620** [A]	**280** [A]
Mercury, Total	2	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	**0.25**
Nickel, Total	100	**10.4**	**19.7**	**45.3**	**41.7**	**8.8**	**5.2**	**13.4**	**14.2**	**25.9**	**5.9**
Selenium, Total	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	**2.7 J**	ND (10)	ND (10)	ND (10)
Silver, Total	40	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Zinc, Total	2000	**8.3 J**	**32.2**	**38.5**	**162**	ND (16)	ND (16)	**745**	**502**	**776**	**120**
Inorganic Compounds - Dissolved (ug/L)											
Antimony, Dissolved	6	-	-	-	-	ND (2)	-	-	-	-	-
Arsenic, Dissolved	3	-	-	-	-	ND (2)	-	-	-	-	-
Barium, Dissolved	6000	-	-	-	-	**98.8**	-	-	-	-	-
Beryllium, Dissolved	1	-	-	-	-	ND (0.8)	-	-	-	-	-
Cadmium, Dissolved	4	-	-	-	-	ND (2)	-	-	-	-	-
Chromium, Dissolved	70	-	-	-	-	ND (4)	-	-	-	-	-
Cobalt, Dissolved	100	-	-	-	-	**4.4**	-	-	-	-	-
Copper, Dissolved	1300	-	-	-	-	ND (4)	-	-	-	-	-
Lead, Dissolved	5	-	-	-	-	ND (1.2)	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	**3460** [A]	-	-	-	-	-
Mercury, Dissolved	2	-	-	-	-	ND (0.2)	-	-	-	-	-
Nickel, Dissolved	100	-	-	-	-	**7.8**	-	-	-	-	-
Selenium, Dissolved	40	-	-	-	-	ND (10)	-	-	-	-	-
Silver, Dissolved	40	-	-	-	-	ND (2)	-	-	-	-	-
Zinc, Dissolved	2000	-	-	-	-	ND (16)	-	-	-	-	-
PCBs (ug/L)											
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)

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POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-1A	MW-1A	MW-1A	MW-1A	MW-1A	MW-1A	MW-2	MW-2	MW-2	MW-2
Sample ID	Groundwater	MW1A-032415-0921	MW1A-060915-1107	MW-1A-091615-0917	MW1A-121515-1352	MW1A-302116-1311	MW1A-101816-1426	MW02-032415-0951	MW02-060915-0954	MW02-091515-0931	MW02-121515-0927
Lab Sample ID	Quality	460-92177-5	460-96192-3	460-101215-6	460-106412-10	460-110804-9	460-122278-9	460-92177-6	460-96192-2	460-101265-4	460-106412-4
Sample Date	Standard	03/24/2015	06/09/2015	09/16/2015	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/09/2015	09/15/2015	12/15/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.271**	**0.386**	**0.359**	**0.331**	**0.354**	**0.342**	**0.688**	**0.603**	**0.755**	**0.528**
Dissolved Oxygen, Field (mg/L)	-	**0.28**	**0.16**	**0.97**	**0.61**	**0.38**	**0.38**	**0.55**	**0.22**	**0.61**	**0.84**
ORP, Field (mV)	-	**-100.7**	**-44.5**	**-49.1**	**4.6**	**-33.1**	**-11.7**	**14.8**	**93**	**57.6**	**-37.2**
pH, Field (s.u)	-	**6.3**	**6.22**	**6.34**	**5.84**	**6.15**	**6.13**	**6.67**	**6.6**	**6.37**	**6.46**
Temperature (Deg C)	-	**12.03**	**14.1**	**14.4**	**14.19**	**12.41**	**15.19**	**6.35**	**15**	**16.3**	**14.28**
Turbidity, Field (NTU)	-	**30.2**	**19.7**	**10.8**	**14.3**	**38.6**	**6.11**	**1.29**	**3**	**107**	**4.27**
Semi-Volatile Organic Compounds (ug/L)											
2,2'-oxybis(1-Chloropropane)	300	ND (11)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4,5-Trichlorophenol	700	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4,6-Trichlorophenol	20	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dichlorophenol	20	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dimethylphenol	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dinitrophenol	40	ND (22)	ND (21)	ND (21)	ND (20)	ND (20)	ND (21)	ND (21)	ND (20)	ND (21)	ND (20)
2,4-Dinitrotoluene	10	ND (2.2)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)	ND (2)
2,6-Dinitrotoluene	10	ND (2.2)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)	ND (2)
2-Chloronaphthalene	600	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Chlorophenol	40	ND (11) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)
2-Methylnaphthalene	30	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Methylphenol	50	ND (11) *	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10) *	ND (10) *	ND (10) *	ND (10)
2-Nitroaniline	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Nitrophenol	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3,3'-Dichlorobenzidine	30	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3-Nitroaniline	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4,6-Dinitro-2-methylphenol	1	ND (22)	ND (21)	ND (21)	ND (20)	ND (20)	ND (21)	ND (21)	ND (20)	ND (21)	ND (20)
4-Bromophenyl phenyl ether	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloro-3-methylphenol	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloroaniline	30	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chlorophenyl phenyl ether	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Methylphenol	50	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitroaniline	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitrophenol	100	ND (22)	ND (21)	ND (21)	ND (20)	ND (20)	ND (21)	ND (21)	ND (20)	ND (21)	ND (20)
Acenaphthene	400	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Acenaphthylene	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Acetophenone	700	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Anthracene	2000	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Atrazine	3	ND (2.2)	ND (2.1)	ND (2.1) *	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)	ND (2)
Benzaldehyde	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzo(a)anthracene	0.1	ND (0.054)	ND (0.052)	ND (0.05)	**0.062**	ND (0.05) *	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.052)	ND (0.05)
Benzo(a)pyrene	0.1	ND (0.054)	ND (0.052)	ND (0.05)	**0.09**	ND (0.05) *	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.052)	ND (0.05)
Benzo(b)fluoranthene	0.2	ND (0.054)	ND (0.052)	**0.016 J**	**0.16 ***	ND (0.05) *	ND (0.052)	ND (0.052)	ND (0.05)	**0.017 J**	ND (0.05)
Benzo(g,h,i)perylene	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzo(k)fluoranthene	0.5	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Biphenyl	400	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethoxy)methane	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethyl)ether	7	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
bis(2-Ethylhexyl)phthalate	3	ND (2.2)	ND (2.1)	**10 B*** [A]	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2)	**5.2** [A]	ND (2)
Butyl benzylphthalate	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Caprolactam	5000	ND (11)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10) *
Carbazole	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Chrysene	5	ND (2.2)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)	ND (2)
Dibenz(a,h)anthracene	0.3	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibenzofuran	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Diethyl phthalate	6000	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)

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EWING, NEW JERSEY

Location		MW-1A	MW-1A	MW-1A	MW-1A	MW-1A	MW-1A	MW-2	MW-2	MW-2	MW-2
Sample ID	Groundwater	MW1A-032415-0921	MW1A-060915-1107	MW-1A-091615-0917	MW1A-121515-1352	MW1A-302116-1311	MW1A-101816-1426	MW02-032415-0951	MW02-060915-0954	MW02-091515-0931	MW02-121515-0927
Lab Sample ID	Quality	460-92177-5	460-96192-3	460-101215-6	460-106412-10	460-110804-9	460-122278-9	460-92177-6	460-96192-2	460-101265-4	460-106412-4
Sample Date	Standard	03/24/2015	06/09/2015	09/16/2015	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/09/2015	09/15/2015	12/15/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.271**	**0.386**	**0.359**	**0.331**	**0.354**	**0.342**	**0.688**	**0.603**	**0.755**	**0.528**
Dissolved Oxygen, Field (mg/L)	-	**0.28**	**0.16**	**0.97**	**0.61**	**0.38**	**0.38**	**0.55**	**0.22**	**0.61**	**0.84**
ORP, Field (mV)	-	**-100.7**	**-44.5**	**-49.1**	**4.6**	**-33.1**	**-11.7**	**14.8**	**93**	**57.6**	**-37.2**
pH, Field (s.u)	-	**6.3**	**6.22**	**6.34**	**5.84**	**6.15**	**6.13**	**6.67**	**6.6**	**6.37**	**6.46**
Temperature (Deg C)	-	**12.03**	**14.1**	**14.4**	**14.19**	**12.41**	**15.19**	**6.35**	**15**	**16.3**	**14.28**
Turbidity, Field (NTU)	-	**30.2**	**19.7**	**10.8**	**14.3**	**38.6**	**6.11**	**1.29**	**3**	**107**	**4.27**
Dimethyl phthalate	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Di-n-butylphthalate	700	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Di-n-octyl phthalate	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Fluoranthene	300	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Fluorene	300	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Semi-Volatile Organic Compounds (ug/L) (con't)											
Hexachlorobenzene	0.02	ND (0.022)	ND (0.021)	ND (0.021)	ND (0.02)	ND (0.02) *	ND (0.021)	ND (0.021)	ND (0.02)	ND (0.021)	ND (0.02)
Hexachlorobutadiene	1	ND (1.1) *	ND (1) *	ND (1) *	ND (1) *	ND (1)	ND (1)	ND (1) *	ND (1) *	ND (1)	ND (1) *
Hexachlorocyclopentadiene	40	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Hexachloroethane	7	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Indeno(1,2,3-cd)pyrene	0.2	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isophorone	40	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Naphthalene	300	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Nitrobenzene	6	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
N-Nitrosodi-n-propylamine	10	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
N-Nitrosodiphenylamine	10	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pentachlorophenol	0.3	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.2)	ND (0.2) *	ND (0.21)	ND (0.21)	ND (0.2)	ND (0.21)	ND (0.2)
Phenanthrene	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Phenol	2000	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pyrene	200	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Volatile Organic Compounds (ug/L)											
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.1 J**	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	1	ND (1)	**0.42 J**	**0.41 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloroethane	2	ND (1)	**0.31 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,4-Dichlorobenzene	75	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	ND (5)	ND (5)	ND (5)	**8.2**	ND (5)	**17**	ND (5)	ND (5)	ND (5)	**20**
Benzene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-1A	MW-1A	MW-1A	MW-1A	MW-1A	MW-1A	MW-2	MW-2	MW-2	MW-2
Sample ID	Groundwater	MW1A-032415-0921	MW1A-060915-1107	MW-1A-091615-0917	MW1A-121515-1352	MW1A-302116-1311	MW1A-101816-1426	MW02-032415-0951	MW02-060915-0954	MW02-091515-0931	MW02-121515-0927
Lab Sample ID	Quality	460-92177-5	460-96192-3	460-101215-6	460-106412-10	460-110804-9	460-122278-9	460-92177-6	460-96192-2	460-101265-4	460-106412-4
Sample Date	Standard	03/24/2015	06/09/2015	09/16/2015	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/09/2015	09/15/2015	12/15/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.271**	**0.386**	**0.359**	**0.331**	**0.354**	**0.342**	**0.688**	**0.603**	**0.755**	**0.528**
Dissolved Oxygen, Field (mg/L)	-	**0.28**	**0.16**	**0.97**	**0.61**	**0.38**	**0.38**	**0.55**	**0.22**	**0.61**	**0.84**
ORP, Field (mV)	-	**-100.7**	**-44.5**	**-49.1**	**4.6**	**-33.1**	**-11.7**	**14.8**	**93**	**57.6**	**-37.2**
pH, Field (s.u)	-	**6.3**	**6.22**	**6.34**	**5.84**	**6.15**	**6.13**	**6.67**	**6.6**	**6.37**	**6.46**
Temperature (Deg C)	-	**12.03**	**14.1**	**14.4**	**14.19**	**12.41**	**15.19**	**6.35**	**15**	**16.3**	**14.28**
Turbidity, Field (NTU)	-	**30.2**	**19.7**	**10.8**	**14.3**	**38.6**	**6.11**	**1.29**	**3**	**107**	**4.27**
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	**13**	**25**	**23**	**13**	**12**	**22**	**0.87 J**	**1.1**	**0.95 J**	**0.94 J**
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isopropylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Volatile Organic Compounds (ug/L) (cont')											
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	**0.4 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	**3.8** [A]	**30** [A]	**33** [A]	**1.1** [A]	**2.7** [A]	**42** [A]	**0.71 J**	**0.71 J**	**0.94 J**	**0.39 J**
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	**0.21 J**	**0.4 J**	ND (1)	ND (1)	**0.21 J**	**0.25 J**	ND (1)	**0.065 J**	ND (1)	ND (1)
Xylene (total)	1000	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)

Notes:
1. ND: Result is not detected above the indicated reporting limit.
   J: Estimated value
   B: Possible blank contamination
   E: Exceeds calibration limits
   F1: MS and/or MSD recovery exceeds the control limits.
   * - Recovery Exceeds control limits
2. Results in red exceed the following criteria:
   - Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-2	MW-2	MW-2	MW-2A	MW-2A	MW-2A	MW-2A	MW-2A	MW-2A	MW-2A
Sample ID	Groundwater	MW02-302116-1026	1000-302116-0003	MW02-101816-1201	MW2A-032415-0846	1000-032415-0003	MW2A-060915-0854	MW2A-091515-1036	MW2A-121515-1032	MW2A-302116-1127	MW2A-101816-1306
Lab Sample ID	Quality	460-110804-6	460-110804-3	460-122278-10	460-92177-7	460-92177-3	460-96192-1	460-101265-5	460-106412-5	460-110804-7	460-122278-11
Sample Date	Standard	03/21/2016	03/21/2016	10/18/2016	03/24/2015	03/24/2015	06/09/2015	09/15/2015	12/15/2015	03/21/2016	10/18/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**573**	-	**0.542**	**0.493**	-	**0.402**	**0.534**	**0.429**	**446**	**0.435**
Dissolved Oxygen, Field (mg/L)	-	**0.29**	-	**0.66**	**0.91**	-	**0.38**	**0.2**	**0.17**	**0.14**	**1.35**
ORP, Field (mV)	-	**79.1**	-	**111.7**	**19.7**	-	**-4.1**	**-27.8**	**-14**	**-41.9**	**-18.7**
pH, Field (s.u)	-	**6.62**	-	**6.44**	**6.19**	-	**6.21**	**6.11**	**5.95**	**6.3**	**6.21**
Temperature (Deg C)	-	**9.61**	-	**17.91**	**8.3**	-	**14.3**	**15.7**	**14.1**	**12.59**	**23.65**
Turbidity, Field (NTU)	-	**0.71**	-	**99.8**	**23.7**	-	**18.7**	**1.4**	**16.3**	**33.2**	**10.9**
Inorganic Compounds - Total (ug/L)											
Cyanide	100	ND (10)	**4.2 J**	**2.2 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	**3.4 J**
Antimony, Total	6	ND (2)	ND (2)	**1.3 J**	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Arsenic, Total	3	**1 J**	**0.99 J**	ND (2)	ND (2)	**0.93 J**	**1.1 J**	ND (2)	**0.82 J**	**1.2 J**	**0.81 J**
Barium, Total	6000	**33**	**34.1**	**65.8**	**48.1**	**46.3**	**48.7**	**41.8**	**43**	**45.6**	**55**
Beryllium, Total	1	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)
Cadmium, Total	4	**2.2**	**2.4**	**4**	ND (2)	ND (2)	**2**	ND (2)	ND (2)	ND (2)	ND (2)
Chromium, Total	70	ND (4)	ND (4)	**9.7**	**4**	**4.6**	**12.7**	**3.4 J**	**7.6**	**6.1**	**12.9**
Chromium VI (Hexavalent), Total	NC	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	100	ND (4)	ND (4)	**1.4 J**	ND (4)	ND (4)	**1.6 J**	ND (4)	**1.9 J**	ND (4)	**1.8 J**
Copper, Total	1300	ND (4)	**1.6 J**	**7.6**	**5.6**	**19.9**	**11**	**6.4**	**14.1**	**6.9**	**27**
Lead, Total	5	ND (1.2)	ND (1.2)	**3.1**	ND (1.2)	**0.78 J**	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
Manganese, Total	50	**220** [A]	**226** [A]	**317** [A]	**1260** [A]	**1220** [A]	**1310** [A]	**1230** [A]	**1170** [A]	**1260** [A]	**1440** [A]
Mercury, Total	2	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
Nickel, Total	100	**7.3**	**7.2**	**13.3**	**51.7**	**57.3**	**49.4**	**26.4**	**46.1**	**21**	**33.3**
Selenium, Total	40	ND (10)	ND (10)	**1.9 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Silver, Total	40	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Zinc, Total	2000	**323**	**325**	**448**	**13.9 J**	**29**	**21**	**7 J**	**9.1 J**	ND (16)	**7.8 J**
Inorganic Compounds - Dissolved (ug/L)											
Antimony, Dissolved	6	-	-	-	-	-	-	-	-	ND (2)	-
Arsenic, Dissolved	3	-	-	-	-	-	-	-	-	ND (2)	-
Barium, Dissolved	6000	-	-	-	-	-	-	-	-	**44.7**	-
Beryllium, Dissolved	1	-	-	-	-	-	-	-	-	ND (0.8)	-
Cadmium, Dissolved	4	-	-	-	-	-	-	-	-	ND (2)	-
Chromium, Dissolved	70	-	-	-	-	-	-	-	-	ND (4)	-
Cobalt, Dissolved	100	-	-	-	-	-	-	-	-	ND (4)	-
Copper, Dissolved	1300	-	-	-	-	-	-	-	-	ND (4)	-
Lead, Dissolved	5	-	-	-	-	-	-	-	-	ND (1.2)	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	**1190** [A]	-
Mercury, Dissolved	2	-	-	-	-	-	-	-	-	ND (0.2)	-
Nickel, Dissolved	100	-	-	-	-	-	-	-	-	**14.3**	-
Selenium, Dissolved	40	-	-	-	-	-	-	-	-	ND (10)	-
Silver, Dissolved	40	-	-	-	-	-	-	-	-	ND (2)	-
Zinc, Dissolved	2000	-	-	-	-	-	-	-	-	ND (16)	-
PCBs (ug/L)											
Aroclor-1016 (PCB-1016)	0.5	ND (0.4)	ND (0.41)	ND (0.4) *	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4) *
Aroclor-1221 (PCB-1221)	0.5	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1232 (PCB-1232)	0.5	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1242 (PCB-1242)	0.5	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1248 (PCB-1248)	0.5	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1254 (PCB-1254)	0.5	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1260 (PCB-1260)	0.5	ND (0.4)	ND (0.41)	ND (0.4) *	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4) *
Aroclor-1262 (PCB-1262)	0.5	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1268 (PCB-1268)	0.5	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Polychlorinated biphenyls (PCBs)	0.5	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-2	MW-2	MW-2	MW-2A	MW-2A	MW-2A	MW-2A	MW-2A	MW-2A	MW-2A
Sample ID	Groundwater	MW02-302116-1026	1000-302116-0003	MW02-101816-1201	MW2A-032415-0846	1000-032415-0003	MW2A-060915-0854	MW2A-091515-1036	MW2A-121515-1032	MW2A-302116-1127	MW2A-101816-1306
Lab Sample ID	Quality	460-110804-6	460-110804-3	460-122278-10	460-92177-7	460-92177-3	460-96192-1	460-101265-5	460-106412-5	460-110804-7	460-122278-11
Sample Date	Standard	03/21/2016	03/21/2016	10/18/2016	03/24/2015	03/24/2015	06/09/2015	09/15/2015	12/15/2015	03/21/2016	10/18/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**573**	-	**0.542**	**0.493**	-	**0.402**	**0.534**	**0.429**	**446**	**0.435**
Dissolved Oxygen, Field (mg/L)	-	**0.29**	-	**0.66**	**0.91**	-	**0.38**	**0.2**	**0.17**	**0.14**	**1.35**
ORP, Field (mV)	-	**79.1**	-	**111.7**	**19.7**	-	**-4.1**	**-27.8**	**-14**	**-41.9**	**-18.7**
pH, Field (s.u)	-	**6.62**	-	**6.44**	**6.19**	-	**6.21**	**6.11**	**5.95**	**6.3**	**6.21**
Temperature (Deg C)	-	**9.61**	-	**17.91**	**8.3**	-	**14.3**	**15.7**	**14.1**	**12.59**	**23.65**
Turbidity, Field (NTU)	-	**0.71**	-	**99.8**	**23.7**	-	**18.7**	**1.4**	**16.3**	**33.2**	**10.9**
Semi-Volatile Organic Compounds (ug/L)											
2,2'-oxybis(1-Chloropropane)	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1F2	ND (10)	ND (10)	ND (10)
2,4,5-Trichlorophenol	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4,6-Trichlorophenol	20	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dichlorophenol	20	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dimethylphenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dinitrophenol	40	ND (20)	ND (20)	ND (21)	ND (21)	ND (21)	ND (20)	ND (21)	ND (20)	ND (20)	ND (21)
2,4-Dinitrotoluene	10	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)	ND (2)	ND (2)	ND (2.1)
2,6-Dinitrotoluene	10	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)	ND (2)	ND (2)	ND (2.1)
2-Chloronaphthalene	600	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Chlorophenol	40	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Methylnaphthalene	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Methylphenol	50	ND (10)	ND (10)	ND (10) *	ND (10) *	ND (10) *	ND (10) *	ND (10) F1*	ND (10)	ND (10)	ND (10) *
2-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Nitrophenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3,3'-Dichlorobenzidine	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4,6-Dinitro-2-methylphenol	1	ND (20)	ND (20)	ND (21)	ND (21)	ND (21)	ND (20)	ND (21)	ND (20)	ND (20)	ND (21)
4-Bromophenyl phenyl ether	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloro-3-methylphenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloroaniline	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chlorophenyl phenyl ether	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Methylphenol	50	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F2	ND (10)	ND (10)	ND (10)
4-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitrophenol	100	ND (20)	ND (20)	ND (21)	ND (21)	ND (21)	ND (20)	ND (21)	ND (20)	ND (20)	ND (21)
Acenaphthene	400	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Acenaphthylene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Acetophenone	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Anthracene	2000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Atrazine	3	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)	ND (2)	ND (2)	ND (2.1)
Benzaldehyde	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzo(a)anthracene	0.1	ND (0.05) *	ND (0.05) *	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.052)	**0.063**	ND (0.05) *	ND (0.052)
Benzo(a)pyrene	0.1	ND (0.05) *	ND (0.05) *	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.052)	**0.052**	ND (0.05) *	ND (0.052)
Benzo(b)fluoranthene	0.2	ND (0.05) *	ND (0.05) *	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.052)	**0.073**	ND (0.05) *	ND (0.052)
Benzo(g,h,i)perylene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzo(k)fluoranthene	0.5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1)
Biphenyl	400	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethoxy)methane	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethyl)ether	7	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
bis(2-Ethylhexyl)phthalate	3	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2.1)	**0.97 J**	ND (2.1) F1	ND (2)	ND (2)	ND (2.1)
Butyl benzylphthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (10)
Caprolactam	5000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1*	ND (10) *	ND (10)	ND (10)
Carbazole	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Chrysene	5	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1) F1	ND (2)	ND (2)	ND (2.1)
Dibenz(a,h)anthracene	0.3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibenzofuran	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Diethyl phthalate	6000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-2	MW-2	MW-2	MW-2A	MW-2A	MW-2A	MW-2A	MW-2A	MW-2A	MW-2A
Sample ID	Groundwater	MW02-302116-1026	1000-302116-0003	MW02-101816-1201	MW2A-032415-0846	1000-032415-0003	MW2A-060915-0854	MW2A-091515-1036	MW2A-121515-1032	MW2A-302116-1127	MW2A-101816-1306
Lab Sample ID	Quality	460-110804-6	460-110804-3	460-122278-10	460-92177-7	460-92177-3	460-96192-1	460-101265-5	460-106412-5	460-110804-7	460-122278-11
Sample Date	Standard	03/21/2016	03/21/2016	10/18/2016	03/24/2015	03/24/2015	06/09/2015	09/15/2015	12/15/2015	03/21/2016	10/18/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**573**	-	**0.542**	**0.493**	-	**0.402**	**0.534**	**0.429**	**446**	**0.435**
Dissolved Oxygen, Field (mg/L)	-	**0.29**	-	**0.66**	**0.91**	-	**0.38**	**0.2**	**0.17**	**0.14**	**1.35**
ORP, Field (mV)	-	**79.1**	-	**111.7**	**19.7**	-	**-4.1**	**-27.8**	**-14**	**-41.9**	**-18.7**
pH, Field (s.u)	-	**6.62**	-	**6.44**	**6.19**	-	**6.21**	**6.11**	**5.95**	**6.3**	**6.21**
Temperature (Deg C)	-	**9.61**	-	**17.91**	**8.3**	-	**14.3**	**15.7**	**14.1**	**12.59**	**23.65**
Turbidity, Field (NTU)	-	**0.71**	-	**99.8**	**23.7**	-	**18.7**	**1.4**	**16.3**	**33.2**	**10.9**
Dimethyl phthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Di-n-butylphthalate	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Di-n-octyl phthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (10)
Fluoranthene	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Fluorene	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Semi-Volatile Organic Compounds (ug/L) (con't)											
Hexachlorobenzene	0.02	ND (0.02) *	ND (0.02) *	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.02)	ND (0.021)	ND (0.02)	ND (0.02) *	ND (0.021)
Hexachlorobutadiene	1	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1) *	ND (1) *	ND (1) F1	ND (1) *	ND (1)	ND (1)
Hexachlorocyclopentadiene	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Hexachloroethane	7	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Indeno(1,2,3-cd)pyrene	0.2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isophorone	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Naphthalene	300	ND (10)	ND (10)	**1 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Nitrobenzene	6	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
N-Nitrosodi-n-propylamine	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)	ND (1)	ND (1)
N-Nitrosodiphenylamine	10	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pentachlorophenol	0.3	ND (0.2) *	ND (0.2) *	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.2)	ND (0.21)	ND (0.2)	ND (0.2) *	**0.097 J**
Phenanthrene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Phenol	2000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F2	ND (10)	ND (10)	ND (10)
Pyrene	200	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Volatile Organic Compounds (ug/L)											
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	**0.33 J**	**0.32 J**	**0.35 J**	**0.46 J**	ND (1)	**0.33 J**	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,4-Dichlorobenzene	75	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.47 J**	ND (1)	ND (1)	**0.33 J**
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	ND (5)	ND (5)	ND (5)	ND (5)	**5.3**	ND (5)	ND (5)	ND (5)	ND (5)	**22**
Benzene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F1F2	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	ND (1)	ND (1)	ND (1)	**1.1**	**1.1**	**1.5**	**1.9**	**1.6**	**1**	**1.7**
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-2	MW-2	MW-2	MW-2A	MW-2A	MW-2A	MW-2A	MW-2A	MW-2A	MW-2A
Sample ID	Groundwater	MW02-302116-1026	1000-302116-0003	MW02-101816-1201	MW2A-032415-0846	1000-032415-0003	MW2A-060915-0854	MW2A-091515-1036	MW2A-121515-1032	MW2A-302116-1127	MW2A-101816-1306
Lab Sample ID	Quality	460-110804-6	460-110804-3	460-122278-10	460-92177-7	460-92177-3	460-96192-1	460-101265-5	460-106412-5	460-110804-7	460-122278-11
Sample Date	Standard	03/21/2016	03/21/2016	10/18/2016	03/24/2015	03/24/2015	06/09/2015	09/15/2015	12/15/2015	03/21/2016	10/18/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**573**	-	**0.542**	**0.493**	-	**0.402**	**0.534**	**0.429**	**446**	**0.435**
Dissolved Oxygen, Field (mg/L)	-	**0.29**	-	**0.66**	**0.91**	-	**0.38**	**0.2**	**0.17**	**0.14**	**1.35**
ORP, Field (mV)	-	**79.1**	-	**111.7**	**19.7**	-	**-4.1**	**-27.8**	**-14**	**-41.9**	**-18.7**
pH, Field (s.u)	-	**6.62**	-	**6.44**	**6.19**	-	**6.21**	**6.11**	**5.95**	**6.3**	**6.21**
Temperature (Deg C)	-	**9.61**	-	**17.91**	**8.3**	-	**14.3**	**15.7**	**14.1**	**12.59**	**23.65**
Turbidity, Field (NTU)	-	**0.71**	-	**99.8**	**23.7**	-	**18.7**	**1.4**	**16.3**	**33.2**	**10.9**
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	**0.73 J**	**0.7 J**	**0.74 J**	**1.6**	**1.5**	**2.4**	**1.4**	**1.2**	**1.5**	**1.2**
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isopropylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Volatile Organic Compounds (ug/L) (cont')											
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	**0.39 J**	**0.37 J**	**0.49 J**	**1.4** [A]	**1.5** [A]	**2.1** [A]	**1.1** [A]	**0.95 J**	**1.2** [A]	**0.84 J**
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	ND (1)	ND (1)	**0.1 J**	**0.22 J**	**0.22 J**	**0.27 J**	ND (1)	ND (1)	**0.28 J**	**0.24 J**
Xylene (total)	1000	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)

Notes:
1. ND: Result is not detected above the indicated reporting limit.
   J: Estimated value
   B: Possible blank contamination
   E: Exceeds calibration limits
   F1: MS and/or MSD recovery exceeds the control limits.
   * - Recovery Exceeds control limits
2. Results in red exceed the following criteria:
   - Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3A	MW-3A	MW-3A	MW-3A
Sample ID	Groundwater	MW03-032415-1021	MW03-060915-0842	MW03-091515-1146	MW03-121515-1152	MW03-302116-0847	MW03-101816-1031	MW3A-032415-1111	MW3A-060915-0952	1000-060915-0003	MW3A-091515-1246
Lab Sample ID	Quality	460-92177-8	460-96192-5	460-101265-6	460-106412-6	460-110804-4	460-122278-12	460-92177-9	460-96192-6	460-96192-9	460-101265-7
Sample Date	Standard	03/24/2015	06/09/2015	09/15/2015	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/09/2015	06/09/2015	09/15/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.365**	**0.439**	**0.514**	**0.75**	**442**	**0.428**	**0.365**	**0.372**	-	**0.555**
Dissolved Oxygen, Field (mg/L)	-	**0.12**	**0.87**	**0.33**	**0.76**	**0.31**	**0.61**	**0.17**	**0.27**	-	**0.4**
ORP, Field (mV)	-	**2.7**	**204.7**	**39.7**	**4**	**114.2**	**68.3**	**-100.9**	**-18.3**	-	**-43.6**
pH, Field (s.u)	-	**6.47**	**6.08**	**6.08**	**6.41**	**6.41**	**6.23**	**6.5**	**6.17**	-	**6.28**
Temperature (Deg C)	-	**9.81**	**13**	**19.5**	**15.71**	**10.38**	**18.62**	**12.97**	**13.1**	-	**18.6**
Turbidity, Field (NTU)	-	**10.45**	**9.1**	**1.8**	**6.31**	**0.92**	**10.1**	**27.8**	**13.6**	-	**3**
Inorganic Compounds - Total (ug/L)											
Cyanide	100	ND (10) F1F2	ND (10)	ND (10)	**4.7 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Antimony, Total	6	ND (2)	ND (2)	**0.81 J**	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	**0.84 J**
Arsenic, Total	3	ND (2)	ND (2)	ND (2)	**0.73 J**	**1 J**	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Barium, Total	6000	**60.4**	**61.8**	**57.6**	**78.4**	**56.4**	**77.7**	**194**	**183**	**172**	**171**
Beryllium, Total	1	ND (0.8)	**0.3 J**	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	**0.29 J**	**0.31 J**	ND (0.8)
Cadmium, Total	4	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Chromium, Total	70	ND (4)	**2.9 J**	ND (4)	**4.4**	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)
Chromium VI (Hexavalent), Total	NC	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	100	**1.8 J**	**1.9 J**	ND (4)	**1.6 J**	ND (4)	**2.9 J**	ND (4)	**1.6 J**	ND (4)	**2.8 J**
Copper, Total	1300	ND (4)	**2 J**	ND (4)	**3.5 J**	ND (4)	ND (4)	**2.8 J**	**2.7 J**	**2 J**	**2.9 J**
Lead, Total	5	ND (1.2)	**0.57 J**	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
Manganese, Total	50	**2840** [A]	**2960** [A]	**2840** [A]	**1140** [A]	**2760** [A]	**3630** [A]	**1540** [A]	**1810** [A]	**1700** [A]	**2100** [A]
Mercury, Total	2	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
Nickel, Total	100	**15.2**	**16**	**13.6**	**16**	**14.1**	**16.6**	**11.8**	**9.9**	**7.5**	**21.7**
Selenium, Total	40	ND (10)	ND (10)	ND (10)	**1.3 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Silver, Total	40	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Zinc, Total	2000	**55.5**	**39.6**	**8.7 J**	**217**	**34.7**	**184**	**8.5 J**	**9.1 J**	**7.1 J**	**12.5 J**
Inorganic Compounds - Dissolved (ug/L)											
Antimony, Dissolved	6	-	-	-	-	-	-	-	-	-	-
Arsenic, Dissolved	3	-	-	-	-	-	-	-	-	-	-
Barium, Dissolved	6000	-	-	-	-	-	-	-	-	-	-
Beryllium, Dissolved	1	-	-	-	-	-	-	-	-	-	-
Cadmium, Dissolved	4	-	-	-	-	-	-	-	-	-	-
Chromium, Dissolved	70	-	-	-	-	-	-	-	-	-	-
Cobalt, Dissolved	100	-	-	-	-	-	-	-	-	-	-
Copper, Dissolved	1300	-	-	-	-	-	-	-	-	-	-
Lead, Dissolved	5	-	-	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-
Mercury, Dissolved	2	-	-	-	-	-	-	-	-	-	-
Nickel, Dissolved	100	-	-	-	-	-	-	-	-	-	-
Selenium, Dissolved	40	-	-	-	-	-	-	-	-	-	-
Silver, Dissolved	40	-	-	-	-	-	-	-	-	-	-
Zinc, Dissolved	2000	-	-	-	-	-	-	-	-	-	-
PCBs (ug/L)											
Aroclor-1016 (PCB-1016)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4) *	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1221 (PCB-1221)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1232 (PCB-1232)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1242 (PCB-1242)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1248 (PCB-1248)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1254 (PCB-1254)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1260 (PCB-1260)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4) *	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1262 (PCB-1262)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Aroclor-1268 (PCB-1268)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Polychlorinated biphenyls (PCBs)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3A	MW-3A	MW-3A	MW-3A
Sample ID	Groundwater	MW03-032415-1021	MW03-060915-0842	MW03-091515-1146	MW03-121515-1152	MW03-302116-0847	MW03-101816-1031	MW3A-032415-1111	MW3A-060915-0952	1000-060915-0003	MW3A-091515-1246
Lab Sample ID	Quality	460-92177-8	460-96192-5	460-101265-6	460-106412-6	460-110804-4	460-122278-12	460-92177-9	460-96192-6	460-96192-9	460-101265-7
Sample Date	Standard	03/24/2015	06/09/2015	09/15/2015	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/09/2015	06/09/2015	09/15/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.365**	**0.439**	**0.514**	**0.75**	**442**	**0.428**	**0.365**	**0.372**	-	**0.555**
Dissolved Oxygen, Field (mg/L)	-	**0.12**	**0.87**	**0.33**	**0.76**	**0.31**	**0.61**	**0.17**	**0.27**	-	**0.4**
ORP, Field (mV)	-	**2.7**	**204.7**	**39.7**	**4**	**114.2**	**68.3**	**-100.9**	**-18.3**	-	**-43.6**
pH, Field (s.u)	-	**6.47**	**6.08**	**6.08**	**6.41**	**6.41**	**6.23**	**6.5**	**6.17**	-	**6.28**
Temperature (Deg C)	-	**9.81**	**13**	**19.5**	**15.71**	**10.38**	**18.62**	**12.97**	**13.1**	-	**18.6**
Turbidity, Field (NTU)	-	**10.45**	**9.1**	**1.8**	**6.31**	**0.92**	**10.1**	**27.8**	**13.6**	-	**3**
Semi-Volatile Organic Compounds (ug/L)											
2,2'-oxybis(1-Chloropropane)	300	ND (11) F1	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
2,4,5-Trichlorophenol	700	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
2,4,6-Trichlorophenol	20	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
2,4-Dichlorophenol	20	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
2,4-Dimethylphenol	100	ND (11) F1	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
2,4-Dinitrophenol	40	ND (22)	ND (21)	ND (21)	ND (20)	ND (20)	ND (21)	ND (23)	ND (21)	ND (21)	ND (21)
2,4-Dinitrotoluene	10	ND (2.2)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.3)	ND (2.1)	ND (2.1)	ND (2.1)
2,6-Dinitrotoluene	10	ND (2.2)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.3)	ND (2.1)	ND (2.1)	ND (2.1)
2-Chloronaphthalene	600	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
2-Chlorophenol	40	ND (11) F1*	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11) *	ND (10)	ND (10)	ND (10)
2-Methylnaphthalene	30	ND (11) F1	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
2-Methylphenol	50	ND (11) F1*	ND (10) *	ND (10) *	ND (10)	ND (10)	ND (10) *	ND (11) *	ND (10) *	ND (10) *	ND (10) *
2-Nitroaniline	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
2-Nitrophenol	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
3,3'-Dichlorobenzidine	30	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
3-Nitroaniline	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
4,6-Dinitro-2-methylphenol	1	ND (22)	ND (21)	ND (21)	ND (20)	ND (20)	ND (21)	ND (23)	ND (21)	ND (21)	ND (21)
4-Bromophenyl phenyl ether	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
4-Chloro-3-methylphenol	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
4-Chloroaniline	30	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
4-Chlorophenyl phenyl ether	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
4-Methylphenol	50	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
4-Nitroaniline	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
4-Nitrophenol	100	ND (22) F2	ND (21)	ND (21)	ND (20)	ND (20)	ND (21)	ND (23)	ND (21)	ND (21)	ND (21)
Acenaphthene	400	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Acenaphthylene	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Acetophenone	700	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Anthracene	2000	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Atrazine	3	ND (2.2)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.3)	ND (2.1)	ND (2.1)	ND (2.1)
Benzaldehyde	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Benzo(a)anthracene	0.1	ND (0.054)	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.05) *	ND (0.052)	ND (0.057)	ND (0.052)	ND (0.052)	ND (0.052)
Benzo(a)pyrene	0.1	ND (0.054)	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.05) *	ND (0.052)	ND (0.057)	ND (0.052)	ND (0.052)	ND (0.052)
Benzo(b)fluoranthene	0.2	ND (0.054)	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.05) *	ND (0.052)	ND (0.057)	ND (0.052)	ND (0.052)	ND (0.052)
Benzo(g,h,i)perylene	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Benzo(k)fluoranthene	0.5	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1.1)	ND (1)	ND (1)	ND (1)
Biphenyl	400	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethoxy)methane	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethyl)ether	7	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1.1)	ND (1)	ND (1)	ND (1)
bis(2-Ethylhexyl)phthalate	3	ND (2.2)	ND (2.1)	**5.8** [A]	ND (2)	ND (2)	ND (2.1)	ND (2.3)	ND (2.1)	**0.89 J**	**5.3** [A]
Butyl benzylphthalate	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Caprolactam	5000	ND (11) F1	ND (10)	ND (10) *	ND (10) *	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10) *
Carbazole	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Chrysene	5	ND (2.2)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.3)	ND (2.1)	ND (2.1)	ND (2.1)
Dibenz(a,h)anthracene	0.3	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1.1)	ND (1)	ND (1)	ND (1)
Dibenzofuran	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Diethyl phthalate	6000	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3A	MW-3A	MW-3A	MW-3A
Sample ID	Groundwater	MW03-032415-1021	MW03-060915-0842	MW03-091515-1146	MW03-121515-1152	MW03-302116-0847	MW03-101816-1031	MW3A-032415-1111	MW3A-060915-0952	1000-060915-0003	MW3A-091515-1246
Lab Sample ID	Quality	460-92177-8	460-96192-5	460-101265-6	460-106412-6	460-110804-4	460-122278-12	460-92177-9	460-96192-6	460-96192-9	460-101265-7
Sample Date	Standard	03/24/2015	06/09/2015	09/15/2015	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/09/2015	06/09/2015	09/15/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.365**	**0.439**	**0.514**	**0.75**	**442**	**0.428**	**0.365**	**0.372**	-	**0.555**
Dissolved Oxygen, Field (mg/L)	-	**0.12**	**0.87**	**0.33**	**0.76**	**0.31**	**0.61**	**0.17**	**0.27**	-	**0.4**
ORP, Field (mV)	-	**2.7**	**204.7**	**39.7**	**4**	**114.2**	**68.3**	**-100.9**	**-18.3**	-	**-43.6**
pH, Field (s.u)	-	**6.47**	**6.08**	**6.08**	**6.41**	**6.41**	**6.23**	**6.5**	**6.17**	-	**6.28**
Temperature (Deg C)	-	**9.81**	**13**	**19.5**	**15.71**	**10.38**	**18.62**	**12.97**	**13.1**	-	**18.6**
Turbidity, Field (NTU)	-	**10.45**	**9.1**	**1.8**	**6.31**	**0.92**	**10.1**	**27.8**	**13.6**	-	**3**
Dimethyl phthalate	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Di-n-butylphthalate	700	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Di-n-octyl phthalate	100	ND (11) F1	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Fluoranthene	300	ND (11) F1	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Fluorene	300	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Semi-Volatile Organic Compounds (ug/L) (con't)											
Hexachlorobenzene	0.02	ND (0.022)	ND (0.021)	ND (0.021)	ND (0.02)	ND (0.02) *	ND (0.021)	ND (0.023)	ND (0.021)	ND (0.021)	ND (0.021)
Hexachlorobutadiene	1	ND (1.1) F1*	ND (1) *	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1.1) *	ND (1) *	ND (1) *	ND (1)
Hexachlorocyclopentadiene	40	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Hexachloroethane	7	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1.1)	ND (1)	ND (1)	ND (1)
Indeno(1,2,3-cd)pyrene	0.2	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1.1)	ND (1)	ND (1)	ND (1)
Isophorone	40	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Naphthalene	300	ND (11) F1	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Nitrobenzene	6	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1.1)	ND (1)	ND (1)	ND (1)
N-Nitrosodi-n-propylamine	10	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1.1)	ND (1)	ND (1)	ND (1)
N-Nitrosodiphenylamine	10	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Pentachlorophenol	0.3	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.2)	ND (0.2) *	**0.094 J**	ND (0.23)	ND (0.21)	ND (0.21)	ND (0.21)
Phenanthrene	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Phenol	2000	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Pyrene	200	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)	ND (10)
Volatile Organic Compounds (ug/L)											
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.81 J**	**0.47 J**	**0.48 J**	**0.37 J**
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.29 J**	**3.1**	**1.3**	**1.3**	**1.3**
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.29 J**	ND (1)	**0.22 J**	**0.25 J**
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.98 J**	**0.77 J**	**0.81 J**	**0.87 J**
1,4-Dichlorobenzene	75	**1**	ND (1)	ND (1)	ND (1)	**0.53 J**	**0.66 J**	**2.6**	**2.3**	**2.2**	**2.4**
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	**6.5**	ND (5)	ND (5)	ND (5)	ND (5)
Benzene	1	**0.24 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.11 J**	**0.1 J**	ND (1)
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1) F1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	**0.93 J**	**1**	**1.2**	**0.75 J**	**0.99 J**	**1.5**	**1.1**	**1.5**	**1.6**	**1.4**
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3A	MW-3A	MW-3A	MW-3A
Sample ID	Groundwater	MW03-032415-1021	MW03-060915-0842	MW03-091515-1146	MW03-121515-1152	MW03-302116-0847	MW03-101816-1031	MW3A-032415-1111	MW3A-060915-0952	1000-060915-0003	MW3A-091515-1246
Lab Sample ID	Quality	460-92177-8	460-96192-5	460-101265-6	460-106412-6	460-110804-4	460-122278-12	460-92177-9	460-96192-6	460-96192-9	460-101265-7
Sample Date	Standard	03/24/2015	06/09/2015	09/15/2015	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/09/2015	06/09/2015	09/15/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.365**	**0.439**	**0.514**	**0.75**	**442**	**0.428**	**0.365**	**0.372**	-	**0.555**
Dissolved Oxygen, Field (mg/L)	-	**0.12**	**0.87**	**0.33**	**0.76**	**0.31**	**0.61**	**0.17**	**0.27**	-	**0.4**
ORP, Field (mV)	-	**2.7**	**204.7**	**39.7**	**4**	**114.2**	**68.3**	**-100.9**	**-18.3**	-	**-43.6**
pH, Field (s.u)	-	**6.47**	**6.08**	**6.08**	**6.41**	**6.41**	**6.23**	**6.5**	**6.17**	-	**6.28**
Temperature (Deg C)	-	**9.81**	**13**	**19.5**	**15.71**	**10.38**	**18.62**	**12.97**	**13.1**	-	**18.6**
Turbidity, Field (NTU)	-	**10.45**	**9.1**	**1.8**	**6.31**	**0.92**	**10.1**	**27.8**	**13.6**	-	**3**
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	**1.9**	**2**	**0.96 J**	**1.6**	**0.97 J**	**1**	**9.4**	**6.3**	**6.5**	**4.1**
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isopropylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Volatile Organic Compounds (ug/L) (cont')											
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.21 J**	ND (1)	**0.13 J**	ND (1)
Methylene chloride	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.41 J**	ND (1)	ND (1)	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	**0.51 J**	**0.8 J**	**0.66 J**	**2.9** [A]	**0.35 J**	**0.4 J**	**8.6** [A]	**2.5** [A]	**2.3** [A]	**1.7** [A]
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	**0.28 J**	**0.22 J**	**0.18 J**	ND (1)	**0.27 J**	**0.17 J**	ND (1)	**0.47 J**	**0.5 J**	**0.28 J**
Xylene (total)	1000	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)

Notes:
1. ND: Result is not detected above the indicated reporting limit.
   J: Estimated value
   B: Possible blank contamination
   E: Exceeds calibration limits
   F1: MS and/or MSD recovery exceeds the control limits.
   * - Recovery Exceeds control limits
2. Results in red exceed the following criteria:
   - Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-3A	MW-3A	MW-3A	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Sample ID	Groundwater	MW3A-121515-1252	MW3A-302116-0936	MW3A-101816-0921	MW04-032415-1206	MW04-060915-1247	MW04-091515-0937	MW04-121515-0907	1000-121515-0003	MW04-302116-1347	MW04-101816-1016
Lab Sample ID	Quality	460-106412-7	460-110804-5	460-122278-13	460-92177-10	460-96192-7	460-101265-8	460-106412-8	460-106412-3	460-110804-14	460-122278-14
Sample Date	Standard	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/09/2015	09/15/2015	12/15/2015	12/15/2015	03/21/2016	10/18/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.464**	**468**	**0.448**	**1.578**	**1.225**	**1.341**	**1.526**	-	**1.24**	**0.899**
Dissolved Oxygen, Field (mg/L)	-	**0.17**	**0.45**	**0.29**	**0.18**	**0.19**	**0.72**	**0.68**	-	**0.17**	**0.2**
ORP, Field (mV)	-	**-17.7**	**-25.9**	**-31.1**	**-86.4**	**-79.9**	**-88.4**	**-87.9**	-	**-307.6**	**-106.3**
pH, Field (s.u)	-	**6.08**	**6.49**	**6.3**	**6.79**	**6.9**	**6.84**	**6.55**	-	**7**	**6.76**
Temperature (Deg C)	-	**14.92**	**11.94**	**15.57**	**7.51**	**13.7**	**16.8**	**14.61**	-	**12.14**	**17.51**
Turbidity, Field (NTU)	-	**43.5**	**95.5**	**7.31**	**8.87**	**12.4**	**18.9**	**19.4**	-	**17.2**	**5.14**
Inorganic Compounds - Total (ug/L)											
Cyanide	100	ND (10)	ND (20)	ND (10)	ND (10)	ND (10)	**4.7 J**	**4.4 J**	**5.7 J**	ND (10)	**3.2 J**
Antimony, Total	6	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	**0.88 J**	**1.7 J**	**1.1 J**	ND (2)	ND (2)
Arsenic, Total	3	**0.9 J**	**1.3 J**	ND (2)	**1.8 J**	**2.7**	**2.9**	**18.9** [A]	**8.4** [A]	**4.1** [A]	**3**
Barium, Total	6000	**179**	**203**	**213**	**1020**	**1050**	**947**	**1150**	**964**	**548**	**647**
Beryllium, Total	1	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	**0.45 J**	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)
Cadmium, Total	4	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	**2.3**	ND (2)	ND (2)	ND (2)
Chromium, Total	70	**2.2 J**	**1.6 J**	**1.5 J**	**3.2 J**	**10**	**11.1**	**37.3**	**17.4**	ND (4)	**1.8 J**
Chromium VI (Hexavalent), Total	NC	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	100	**4.6**	**2 J**	**3.1 J**	**1.8 J**	**4.5**	**4.5**	**15.5**	**7.1**	ND (4)	ND (4)
Copper, Total	1300	**5.5**	**3.5 J**	**5**	**6.7**	**23.4**	**7.9**	**211**	**87.1**	**2.7 J**	**3.1 J**
Lead, Total	5	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	**2.2**	**5**	**20.5** [A]	**7.7** [A]	ND (1.2)	ND (1.2)
Manganese, Total	50	**1940** [A]	**1710** [A]	**2030** [A]	**2220** [A]	**3100** [A]	**3450** [A]	**2350** [A]	**2360** [A]	**4180** [A]	**3960** [A]
Mercury, Total	2	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	**0.15 J**	ND (0.2)	**0.25**	ND (0.2)	ND (0.2)	ND (0.2)
Nickel, Total	100	**32.4**	**11.9**	**15.1**	**24.3**	**612** [A]	**584** [A]	**1370** [A]	**503** [A]	**18.6**	**10.4**
Selenium, Total	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (50)	ND (10)	ND (10)
Silver, Total	40	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Zinc, Total	2000	**13.6 J**	ND (16)	**9.3 J**	**132**	**8310** [A]	**8610 E** [A]	**11100** [A]	**266**	**80**	**45.2**
Inorganic Compounds - Dissolved (ug/L)											
Antimony, Dissolved	6	-	ND (2) F1	-	-	-	-	-	-	-	-
Arsenic, Dissolved	3	-	ND (2)	-	-	-	-	-	-	-	-
Barium, Dissolved	6000	-	**172**	-	-	-	-	-	-	-	-
Beryllium, Dissolved	1	-	ND (0.8)	-	-	-	-	-	-	-	-
Cadmium, Dissolved	4	-	ND (2)	-	-	-	-	-	-	-	-
Chromium, Dissolved	70	-	ND (4)	-	-	-	-	-	-	-	-
Cobalt, Dissolved	100	-	ND (4)	-	-	-	-	-	-	-	-
Copper, Dissolved	1300	-	ND (4)	-	-	-	-	-	-	-	-
Lead, Dissolved	5	-	ND (1.2)	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	-	**1570** [A]	-	-	-	-	-	-	-	-
Mercury, Dissolved	2	-	ND (0.2)	-	-	-	-	-	-	-	-
Nickel, Dissolved	100	-	**4.4**	-	-	-	-	-	-	-	-
Selenium, Dissolved	40	-	ND (10)	-	-	-	-	-	-	-	-
Silver, Dissolved	40	-	ND (2) F1	-	-	-	-	-	-	-	-
Zinc, Dissolved	2000	-	ND (16)	-	-	-	-	-	-	-	-
PCBs (ug/L)											
Aroclor-1016 (PCB-1016)	0.5	ND (0.4)	ND (0.4)	ND (0.4) *	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4) *
Aroclor-1221 (PCB-1221)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)
Aroclor-1232 (PCB-1232)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)
Aroclor-1242 (PCB-1242)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)
Aroclor-1248 (PCB-1248)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)
Aroclor-1254 (PCB-1254)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)
Aroclor-1260 (PCB-1260)	0.5	ND (0.4)	ND (0.4)	ND (0.4) *	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4) *
Aroclor-1262 (PCB-1262)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)
Aroclor-1268 (PCB-1268)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)
Polychlorinated biphenyls (PCBs)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-3A	MW-3A	MW-3A	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Sample ID	Groundwater	MW3A-121515-1252	MW3A-302116-0936	MW3A-101816-0921	MW04-032415-1206	MW04-060915-1247	MW04-091515-0937	MW04-121515-0907	1000-121515-0003	MW04-302116-1347	MW04-101816-1016
Lab Sample ID	Quality	460-106412-7	460-110804-5	460-122278-13	460-92177-10	460-96192-7	460-101265-8	460-106412-8	460-106412-3	460-110804-14	460-122278-14
Sample Date	Standard	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/09/2015	09/15/2015	12/15/2015	12/15/2015	03/21/2016	10/18/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.464**	**468**	**0.448**	**1.578**	**1.225**	**1.341**	**1.526**	-	**1.24**	**0.899**
Dissolved Oxygen, Field (mg/L)	-	**0.17**	**0.45**	**0.29**	**0.18**	**0.19**	**0.72**	**0.68**	-	**0.17**	**0.2**
ORP, Field (mV)	-	**-17.7**	**-25.9**	**-31.1**	**-86.4**	**-79.9**	**-88.4**	**-87.9**	-	**-307.6**	**-106.3**
pH, Field (s.u)	-	**6.08**	**6.49**	**6.3**	**6.79**	**6.9**	**6.84**	**6.55**	-	**7**	**6.76**
Temperature (Deg C)	-	**14.92**	**11.94**	**15.57**	**7.51**	**13.7**	**16.8**	**14.61**	-	**12.14**	**17.51**
Turbidity, Field (NTU)	-	**43.5**	**95.5**	**7.31**	**8.87**	**12.4**	**18.9**	**19.4**	-	**17.2**	**5.14**
Semi-Volatile Organic Compounds (ug/L)											
2,2'-oxybis(1-Chloropropane)	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4,5-Trichlorophenol	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4,6-Trichlorophenol	20	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dichlorophenol	20	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dimethylphenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dinitrophenol	40	ND (20)	ND (20)	ND (20)	ND (21)	ND (100)	ND (21)	ND (21)	ND (21)	ND (20)	ND (21)
2,4-Dinitrotoluene	10	ND (2)	ND (2)	ND (2)	ND (2.1)	ND (10)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)
2,6-Dinitrotoluene	10	ND (2)	ND (2)	ND (2)	ND (2.1)	ND (10)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)
2-Chloronaphthalene	600	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Chlorophenol	40	ND (10)	ND (10)	ND (10)	ND (10) *	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Methylnaphthalene	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	**2.3 J**	**1.5 J**	**1.5 J**	ND (10)	**0.98 J**
2-Methylphenol	50	ND (10)	ND (10)	ND (10) *	ND (10) *	ND (52) *	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10) *
2-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Nitrophenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3,3'-Dichlorobenzidine	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4,6-Dinitro-2-methylphenol	1	ND (20)	ND (20)	ND (20)	ND (21)	ND (100)	ND (21)	ND (21)	ND (21)	ND (20)	ND (21)
4-Bromophenyl phenyl ether	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloro-3-methylphenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloroaniline	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chlorophenyl phenyl ether	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Methylphenol	50	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitrophenol	100	ND (20)	ND (20)	ND (20)	ND (21)	ND (100)	ND (21)	ND (21)	ND (21)	ND (20)	ND (21)
Acenaphthene	400	ND (10)	ND (10)	ND (10)	**5.2 J**	ND (52)	**5 J**	**3.2 J**	**3.1 J**	**4.7 J**	**6.2 J**
Acenaphthylene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Acetophenone	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Anthracene	2000	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	**0.67 J**	ND (10)	ND (10)	ND (10)	ND (10)
Atrazine	3	ND (2)	ND (2)	ND (2)	ND (2.1)	ND (10)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)
Benzaldehyde	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzo(a)anthracene	0.1	ND (0.05)	ND (0.05) *	ND (0.051)	ND (1)	ND (0.26)	**0.15** [A]	**0.11** [A]	**0.09**	ND (0.05) *	ND (0.052)
Benzo(a)pyrene	0.1	ND (0.05)	ND (0.05) *	ND (0.051)	ND (1)	ND (0.26)	**0.1**	**0.072**	**0.072**	ND (0.05) *	ND (0.052)
Benzo(b)fluoranthene	0.2	ND (0.05)	ND (0.05) *	ND (0.051)	ND (1)	**0.17 J**	**0.15**	**0.12**	**0.12**	ND (0.05) *	ND (0.052)
Benzo(g,h,i)perylene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzo(k)fluoranthene	0.5	ND (1)	ND (1)	ND (1)	ND (1)	ND (5.2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Biphenyl	400	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethoxy)methane	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethyl)ether	7	ND (1)	ND (1)	ND (1)	ND (1)	ND (5.2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
bis(2-Ethylhexyl)phthalate	3	ND (2)	ND (2)	ND (2)	ND (2.1)	ND (10)	**9.4** [A]	ND (2.1)	**0.79 J**	ND (2)	ND (2.1)
Butyl benzylphthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Caprolactam	5000	ND (10) *	ND (10)	ND (10)	ND (10)	ND (52)	ND (10) *	ND (10) *	ND (10) *	ND (10)	ND (10)
Carbazole	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Chrysene	5	ND (2)	ND (2)	ND (2)	ND (2.1)	ND (10)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)
Dibenz(a,h)anthracene	0.3	ND (1)	ND (1)	ND (1)	ND (1)	ND (5.2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibenzofuran	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	**0.89 J**	ND (10)	ND (10)	ND (10)	**1.3 J**
Diethyl phthalate	6000	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-3A	MW-3A	MW-3A	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Sample ID	Groundwater	MW3A-121515-1252	MW3A-302116-0936	MW3A-101816-0921	MW04-032415-1206	MW04-060915-1247	MW04-091515-0937	MW04-121515-0907	1000-121515-0003	MW04-302116-1347	MW04-101816-1016
Lab Sample ID	Quality	460-106412-7	460-110804-5	460-122278-13	460-92177-10	460-96192-7	460-101265-8	460-106412-8	460-106412-3	460-110804-14	460-122278-14
Sample Date	Standard	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/09/2015	09/15/2015	12/15/2015	12/15/2015	03/21/2016	10/18/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.464**	**468**	**0.448**	**1.578**	**1.225**	**1.341**	**1.526**	-	**1.24**	**0.899**
Dissolved Oxygen, Field (mg/L)	-	**0.17**	**0.45**	**0.29**	**0.18**	**0.19**	**0.72**	**0.68**	-	**0.17**	**0.2**
ORP, Field (mV)	-	**-17.7**	**-25.9**	**-31.1**	**-86.4**	**-79.9**	**-88.4**	**-87.9**	-	**-307.6**	**-106.3**
pH, Field (s.u)	-	**6.08**	**6.49**	**6.3**	**6.79**	**6.9**	**6.84**	**6.55**	-	**7**	**6.76**
Temperature (Deg C)	-	**14.92**	**11.94**	**15.57**	**7.51**	**13.7**	**16.8**	**14.61**	-	**12.14**	**17.51**
Turbidity, Field (NTU)	-	**43.5**	**95.5**	**7.31**	**8.87**	**12.4**	**18.9**	**19.4**	-	**17.2**	**5.14**
Dimethyl phthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Di-n-butylphthalate	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Di-n-octyl phthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Fluoranthene	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Fluorene	300	ND (10)	ND (10)	ND (10)	**1.8 J**	ND (52)	**3 J**	**2.1 J**	**2.2 J**	**3.1 J**	**5.1 J**
Semi-Volatile Organic Compounds (ug/L) (con't)											
Hexachlorobenzene	0.02	ND (0.02)	ND (0.02) *	ND (0.02)	ND (0.021)	ND (0.1)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.02) *	ND (0.021)
Hexachlorobutadiene	1	ND (1) *	ND (1)	ND (1)	ND (1) *	ND (5.2) *	ND (1)	ND (1) *	ND (1) *	ND (1)	ND (1)
Hexachlorocyclopentadiene	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Hexachloroethane	7	ND (1)	ND (1)	ND (1)	ND (1)	ND (5.2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Indeno(1,2,3-cd)pyrene	0.2	ND (1)	ND (1)	ND (1)	ND (1)	ND (5.2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isophorone	40	ND (10)	ND (10)	ND (10)	**2.3 J**	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Naphthalene	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Nitrobenzene	6	ND (1)	ND (1)	ND (1)	ND (1)	ND (5.2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
N-Nitrosodi-n-propylamine	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (5.2)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
N-Nitrosodiphenylamine	10	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pentachlorophenol	0.3	ND (0.2)	ND (0.2) *	**0.1 J**	ND (0.21)	ND (1)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.2) *	**0.12 J**
Phenanthrene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	**1.1 J**	**0.83 J**	ND (10)	ND (10)	**0.96 J**
Phenol	2000	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pyrene	200	ND (10)	ND (10)	ND (10)	ND (10)	ND (52)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Volatile Organic Compounds (ug/L)											
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	ND (1)	**0.61 J**	**0.35 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2,4-Trichlorobenzene	9	**1**	**1.9**	**1.1**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	**0.22 J**	ND (1)	**0.3 J**	**0.35 J**	**0.34 J**	**0.23 J**	ND (1)	**0.24 J**	**0.27 J**
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	**0.69 J**	**0.84 J**	**0.66 J**	ND (1)	**0.34 J**	**0.48 J**	**0.35 J**	**0.44 J**	ND (1)	**0.35 J**
1,4-Dichlorobenzene	75	**2.1**	**2.3**	**1.9**	**3**	**3.4**	**4.4**	**3.4**	**3.7**	**2.2**	**3**
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	ND (5)	ND (5)	**15**	**17**	**48**	**81**	**80**	**49**	**9.6**	ND (5)
Benzene	1	ND (1)	**0.12 J**	ND (1)	**6.1** [A]	**7.6** [A]	**8.3** [A]	**7.6** [A]	**7.8** [A]	**3.3** [A]	**3.3** [A]
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	**0.54 J**	**0.45 J**	ND (1)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	**1.4**	**0.97 J**	**1.7**	**37**	**47**	**48**	**39**	**42**	**26**	**26**
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-3A	MW-3A	MW-3A	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Sample ID	Groundwater	MW3A-121515-1252	MW3A-302116-0936	MW3A-101816-0921	MW04-032415-1206	MW04-060915-1247	MW04-091515-0937	MW04-121515-0907	1000-121515-0003	MW04-302116-1347	MW04-101816-1016
Lab Sample ID	Quality	460-106412-7	460-110804-5	460-122278-13	460-92177-10	460-96192-7	460-101265-8	460-106412-8	460-106412-3	460-110804-14	460-122278-14
Sample Date	Standard	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/09/2015	09/15/2015	12/15/2015	12/15/2015	03/21/2016	10/18/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.464**	**468**	**0.448**	**1.578**	**1.225**	**1.341**	**1.526**	-	**1.24**	**0.899**
Dissolved Oxygen, Field (mg/L)	-	**0.17**	**0.45**	**0.29**	**0.18**	**0.19**	**0.72**	**0.68**	-	**0.17**	**0.2**
ORP, Field (mV)	-	**-17.7**	**-25.9**	**-31.1**	**-86.4**	**-79.9**	**-88.4**	**-87.9**	-	**-307.6**	**-106.3**
pH, Field (s.u)	-	**6.08**	**6.49**	**6.3**	**6.79**	**6.9**	**6.84**	**6.55**	-	**7**	**6.76**
Temperature (Deg C)	-	**14.92**	**11.94**	**15.57**	**7.51**	**13.7**	**16.8**	**14.61**	-	**12.14**	**17.51**
Turbidity, Field (NTU)	-	**43.5**	**95.5**	**7.31**	**8.87**	**12.4**	**18.9**	**19.4**	-	**17.2**	**5.14**
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	**3.8**	**7.1**	**3.3**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1) *	ND (1)	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	**0.93 J**	**3**	ND (1)	ND (1)	**0.3 J**	ND (1)	ND (1)
Isopropylbenzene	700	ND (1)	ND (1)	ND (1)	**2.4**	**3**	**4.3**	**3.1**	**3.2**	**1.3**	**1.7**
Volatile Organic Compounds (ug/L) (cont')											
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (1) *	ND (1)	ND (1)	**0.68 J**	**1.3**	**0.78 J**	ND (1) *	ND (1) *	**0.44 J**	**0.48 J**
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**5.5** [A]
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	600	ND (1)	ND (1)	ND (1)	**0.97 J**	**0.78 J**	**0.32 J**	**0.96 J**	**1.1**	ND (1)	**0.26 J**
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	**1.9** [A]	**5.3** [A]	**1.6** [A]	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	ND (1)	**0.54 J**	**0.32 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Xylene (total)	1000	ND (2)	ND (2)	ND (2)	**17**	**21**	ND (2)	**0.91 J**	**1.1 J**	**0.87 J**	ND (2)

Notes:
1. ND: Result is not detected above the indicated reporting limit.
   J: Estimated value
   B: Possible blank contamination
   E: Exceeds calibration limits
   F1: MS and/or MSD recovery exceeds the control limits.
   * - Recovery Exceeds control limits
2. Results in red exceed the following criteria:
   - Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-4A	MW-4A	MW-4A	MW-4A	MW-4A	MW-4A	MW-4A	MW-5	MW-5	MW-5
Sample ID	Groundwater	MW4A-032415-1056	MW4A-060915-1132	MW4A-091515-1052	1000-091515-0003	MW4A-121515-1032	MW4A-302116-1247	MW4A-101816-0906	MW5-032415-1156	MW05-061015-1142	MW05-091515-1317
Lab Sample ID	Quality	460-92177-11	460-96192-8	460-101265-9	460-101265-3	460-106412-9	460-110804-13	460-122278-15	460-92177-12	460-96337-3	460-101265-10
Sample Date	Standard	03/24/2015	06/09/2015	09/15/2015	09/15/2015	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/10/2015	09/15/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.662**	**0.573**	**0.577**	-	**0.554**	**0.615**	**0.459**	**1.096**	**1.145**	**1.443**
Dissolved Oxygen, Field (mg/L)	-	**0.34**	**0.41**	**0.36**	-	**0.54**	**0.21**	**0.32**	**0.13**	**0.13**	**0.15**
ORP, Field (mV)	-	**-42.7**	**-31.4**	**-31.6**	-	**77.9**	**-337.4**	**-106.3**	**-63.8**	**-62.3**	**-86.2**
pH, Field (s.u)	-	**6.57**	**6.32**	**6.71**	-	**6.37**	**6.64**	**6.59**	**6.61**	**6.43**	**6.89**
Temperature (Deg C)	-	**10.79**	**14.2**	**14.8**	-	**14.05**	**12.49**	**14.65**	**8.46**	**12.6**	**17**
Turbidity, Field (NTU)	-	**33.1**	**5.8**	**7.2**	-	**12.5**	**21.5**	**19.4**	**24.9**	**34.9**	**63.8**
Inorganic Compounds - Total (ug/L)											
Cyanide	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)	**3.6 JF1F2**	ND (10)	**21 B**	**5.5 J**
Antimony, Total	6	ND (2)	ND (2)	ND (2)	**1.2 J**	**2.4**	ND (2)	ND (5)	ND (2)	**4.4**	**14.7** [A]
Arsenic, Total	3	**2.4**	**3.9** [A]	**1.3 J**	**1.3 J**	**13.8** [A]	**1.5 J**	**4.4 J** [A]	**9** [A]	**92.8** [A]	**352** [A]
Barium, Total	6000	**148**	**133**	**135**	**139**	**136**	**130**	**145**	**1170**	**1530**	**2790**
Beryllium, Total	1	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	**0.32 J**	ND (0.8)	ND (2)	ND (0.8)	**0.42 J**	**2.3** [A]
Cadmium, Total	4	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	**2.5**	**13** [A]
Chromium, Total	70	**21.1**	**17.1**	**11.6**	**12.4**	**112** [A]	**4**	**59.3**	**3.9 J**	**36.5**	**192** [A]
Chromium VI (Hexavalent), Total	NC	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	100	**9.4**	**24.2**	**4**	**4.3**	**104** [A]	**4**	**11.4**	**2.2 J**	**25.4**	**90.4**
Copper, Total	1300	**15**	**39.4**	**6.8**	**8**	**308**	**10.9**	**124**	**19.6**	**362**	**2260** [A]
Lead, Total	5	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	**1.1 J**	ND (1.2)	ND (3)	**2.4**	**29** [A]	**148** [A]
Manganese, Total	50	**3410** [A]	**3260** [A]	**3700** [A]	**3800** [A]	**3370** [A]	**3700** [A]	**4030** [A]	**604** [A]	**893** [A]	**1290** [A]
Mercury, Total	2	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	**0.43**
Nickel, Total	100	**42.8**	**79.8**	**13.8**	**14.3**	**350** [A]	**8.2**	**36.4**	**141** [A]	**2300** [A]	**9540** [A]
Selenium, Total	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (25)	ND (10)	**0.8 J**	**3.1 J**
Silver, Total	40	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (2)	ND (2)	ND (2)
Zinc, Total	2000	**9.6 J**	**12.4 J**	ND (16)	ND (16)	**58.9**	ND (16)	ND (40)	**459**	**7990** [A]	**27100** [A]
Inorganic Compounds - Dissolved (ug/L)											
Antimony, Dissolved	6	-	-	-	-	-	ND (2)	-	-	-	-
Arsenic, Dissolved	3	-	-	-	-	-	**1.2 J**	-	-	-	-
Barium, Dissolved	6000	-	-	-	-	-	**135**	-	-	-	-
Beryllium, Dissolved	1	-	-	-	-	-	ND (0.8)	-	-	-	-
Cadmium, Dissolved	4	-	-	-	-	-	ND (2)	-	-	-	-
Chromium, Dissolved	70	-	-	-	-	-	**3.1 J**	-	-	-	-
Cobalt, Dissolved	100	-	-	-	-	-	**3.8 J**	-	-	-	-
Copper, Dissolved	1300	-	-	-	-	-	**7.6**	-	-	-	-
Lead, Dissolved	5	-	-	-	-	-	ND (1.2)	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	**3550** [A]	-	-	-	-
Mercury, Dissolved	2	-	-	-	-	-	ND (0.2)	-	-	-	-
Nickel, Dissolved	100	-	-	-	-	-	**8.1**	-	-	-	-
Selenium, Dissolved	40	-	-	-	-	-	ND (10)	-	-	-	-
Silver, Dissolved	40	-	-	-	-	-	ND (2)	-	-	-	-
Zinc, Dissolved	2000	-	-	-	-	-	ND (16)	-	-	-	-
PCBs (ug/L)											
Aroclor-1016 (PCB-1016)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4) *	-	-	-
Aroclor-1221 (PCB-1221)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	-	-	-
Aroclor-1232 (PCB-1232)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	-	-	-
Aroclor-1242 (PCB-1242)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	-	-	-
Aroclor-1248 (PCB-1248)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	-	-	-
Aroclor-1254 (PCB-1254)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	-	-	-
Aroclor-1260 (PCB-1260)	0.5	ND (0.4)	ND (0.4) F1	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4) *	-	-	-
Aroclor-1262 (PCB-1262)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	-	-	-
Aroclor-1268 (PCB-1268)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.4)	ND (0.4)	-	-	-

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-4A	MW-4A	MW-4A	MW-4A	MW-4A	MW-4A	MW-4A	MW-5	MW-5	MW-5
Sample ID	Groundwater	MW4A-032415-1056	MW4A-060915-1132	MW4A-091515-1052	1000-091515-0003	MW4A-121515-1032	MW4A-302116-1247	MW4A-101816-0906	MW5-032415-1156	MW05-061015-1142	MW05-091515-1317
Lab Sample ID	Quality	460-92177-11	460-96192-8	460-101265-9	460-101265-3	460-106412-9	460-110804-13	460-122278-15	460-92177-12	460-96337-3	460-101265-10
Sample Date	Standard	03/24/2015	06/09/2015	09/15/2015	09/15/2015	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/10/2015	09/15/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.662**	**0.573**	**0.577**	-	**0.554**	**0.615**	**0.459**	**1.096**	**1.145**	**1.443**
Dissolved Oxygen, Field (mg/L)	-	**0.34**	**0.41**	**0.36**	-	**0.54**	**0.21**	**0.32**	**0.13**	**0.13**	**0.15**
ORP, Field (mV)	-	**-42.7**	**-31.4**	**-31.6**	-	**77.9**	**-337.4**	**-106.3**	**-63.8**	**-62.3**	**-86.2**
pH, Field (s.u)	-	**6.57**	**6.32**	**6.71**	-	**6.37**	**6.64**	**6.59**	**6.61**	**6.43**	**6.89**
Temperature (Deg C)	-	**10.79**	**14.2**	**14.8**	-	**14.05**	**12.49**	**14.65**	**8.46**	**12.6**	**17**
Turbidity, Field (NTU)	-	**33.1**	**5.8**	**7.2**	-	**12.5**	**21.5**	**19.4**	**24.9**	**34.9**	**63.8**
Semi-Volatile Organic Compounds (ug/L)											
2,2'-oxybis(1-Chloropropane)	300	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
2,4,5-Trichlorophenol	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
2,4,6-Trichlorophenol	20	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
2,4-Dichlorophenol	20	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
2,4-Dimethylphenol	100	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
2,4-Dinitrophenol	40	ND (21)	ND (21)	ND (21)	ND (21)	ND (21)	ND (20)	ND (21)	ND (23)	ND (21)	ND (21)
2,4-Dinitrotoluene	10	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)	ND (2.3)	ND (2.1)	ND (2.1)
2,6-Dinitrotoluene	10	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1) F1	ND (2)	ND (2.1)	ND (2.3)	ND (2.1)	ND (2.1)
2-Chloronaphthalene	600	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
2-Chlorophenol	40	ND (10) *	ND (10) F1	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10) F1	ND (11) *	ND (10)	ND (10)
2-Methylnaphthalene	30	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	**2.9 J**	**2 J**
2-Methylphenol	50	ND (10) *	ND (10) F1*	ND (10) *	ND (10) *	ND (10) F1	ND (10)	ND (10) F1*	ND (11) *	ND (10)	ND (10) *
2-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
2-Nitrophenol	100	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
3,3'-Dichlorobenzidine	30	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (11)	ND (10)	ND (10)
3-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
4,6-Dinitro-2-methylphenol	1	ND (21)	ND (21)	ND (21)	ND (21)	ND (21)	ND (20)	ND (21)	ND (23)	ND (21)	ND (21)
4-Bromophenyl phenyl ether	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
4-Chloro-3-methylphenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
4-Chloroaniline	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
4-Chlorophenyl phenyl ether	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
4-Methylphenol	50	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
4-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
4-Nitrophenol	100	ND (21)	ND (21)	ND (21)	ND (21)	ND (21) F1	ND (20)	ND (21)	ND (23)	ND (21)	ND (21)
Acenaphthene	400	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	**2.8 J**	**3.4 J**
Acenaphthylene	100	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
Acetophenone	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	**1.7 J**	ND (10)
Anthracene	2000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
Atrazine	3	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1) F1	ND (2.3)	ND (2.1)	ND (2.1)
Benzaldehyde	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	**3.7 J**	**1.2 J**
Benzo(a)anthracene	0.1	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05) *	ND (0.052)	ND (0.057)	ND (0.052)	**0.13** [A]
Benzo(a)pyrene	0.1	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05) *	ND (0.052)	ND (0.057)	**0.35** [A]	**0.22** [A]
Benzo(b)fluoranthene	0.2	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05) *	ND (0.052)	ND (0.057)	**0.36** [A]	**0.24** [A]
Benzo(g,h,i)perylene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
Benzo(k)fluoranthene	0.5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1.1)	ND (1)	ND (1)
Biphenyl	400	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
bis(2-Chloroethoxy)methane	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
bis(2-Chloroethyl)ether	7	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1.1)	ND (1)	ND (1)
bis(2-Ethylhexyl)phthalate	3	ND (2.1)	**1.3 J**	**6.5** [A]	**4.9** [A]	ND (2.1)	ND (2)	ND (2.1)	ND (2.3)	**1.8 J**	**8.4** [A]
Butyl benzylphthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
Caprolactam	5000	ND (10)	ND (10) F1	ND (10) *	ND (10) *	ND (10) *F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10) *
Carbazole	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
Chrysene	5	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)	ND (2.3)	ND (2.1)	ND (2.1)
Dibenz(a,h)anthracene	0.3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1.1)	ND (1)	ND (1)
Dibenzofuran	100	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	**1.1 J**
Diethyl phthalate	6000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-4A	MW-4A	MW-4A	MW-4A	MW-4A	MW-4A	MW-4A	MW-5	MW-5	MW-5
Sample ID	Groundwater	MW4A-032415-1056	MW4A-060915-1132	MW4A-091515-1052	1000-091515-0003	MW4A-121515-1032	MW4A-302116-1247	MW4A-101816-0906	MW5-032415-1156	MW05-061015-1142	MW05-091515-1317
Lab Sample ID	Quality	460-92177-11	460-96192-8	460-101265-9	460-101265-3	460-106412-9	460-110804-13	460-122278-15	460-92177-12	460-96337-3	460-101265-10
Sample Date	Standard	03/24/2015	06/09/2015	09/15/2015	09/15/2015	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/10/2015	09/15/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.662**	**0.573**	**0.577**	-	**0.554**	**0.615**	**0.459**	**1.096**	**1.145**	**1.443**
Dissolved Oxygen, Field (mg/L)	-	**0.34**	**0.41**	**0.36**	-	**0.54**	**0.21**	**0.32**	**0.13**	**0.13**	**0.15**
ORP, Field (mV)	-	**-42.7**	**-31.4**	**-31.6**	-	**77.9**	**-337.4**	**-106.3**	**-63.8**	**-62.3**	**-86.2**
pH, Field (s.u)	-	**6.57**	**6.32**	**6.71**	-	**6.37**	**6.64**	**6.59**	**6.61**	**6.43**	**6.89**
Temperature (Deg C)	-	**10.79**	**14.2**	**14.8**	-	**14.05**	**12.49**	**14.65**	**8.46**	**12.6**	**17**
Turbidity, Field (NTU)	-	**33.1**	**5.8**	**7.2**	-	**12.5**	**21.5**	**19.4**	**24.9**	**34.9**	**63.8**
Dimethyl phthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
Di-n-butylphthalate	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
Di-n-octyl phthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
Fluoranthene	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	**0.88 J**
Fluorene	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	**2.3 J**	**2.7 J**
Semi-Volatile Organic Compounds (ug/L) (con't)											
Hexachlorobenzene	0.02	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.02) *	ND (0.021)	ND (0.023)	ND (0.021)	ND (0.021)
Hexachlorobutadiene	1	ND (1) *	ND (1) F1*	ND (1)	ND (1)	ND (1) F1*	ND (1)	ND (1)	ND (1.1) *	ND (1) *	ND (1)
Hexachlorocyclopentadiene	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
Hexachloroethane	7	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1.1)	ND (1)	ND (1)
Indeno(1,2,3-cd)pyrene	0.2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F1	ND (1.1)	ND (1)	ND (1)
Isophorone	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
Naphthalene	300	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	**3.1 J**	**1.2 J**
Nitrobenzene	6	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1.1)	ND (1)	ND (1)
N-Nitrosodi-n-propylamine	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1.1)	ND (1)	ND (1)
N-Nitrosodiphenylamine	10	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
Pentachlorophenol	0.3	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.2) *	**0.11 J**	ND (0.23)	ND (0.21)	ND (0.21)
Phenanthrene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	**1.9 J**	**2 J**
Phenol	2000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (11)	ND (10)	ND (10)
Pyrene	200	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)	ND (10)	ND (11)	ND (10) *	**1.2 J**
Volatile Organic Compounds (ug/L)											
1,1,1-Trichloroethane	30	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	**0.28 J**	**0.47 J**	**0.26 J**	**0.28 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	1	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2,4-Trichlorobenzene	9	**0.33 J**	**0.41 J**	**0.33 J**	**0.36 J**	**0.37 J**	ND (1)	**0.32 J**	ND (1)	ND (1)	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	**0.23 J**	**0.28 J**	**0.32 J**	**0.31 J**	**0.29 J**	**0.25 J**	**0.25 J**	ND (1)	**0.31 J**	**0.28 J**
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	**1**	**1.2**	**1.3**	**1.3**	**1.1**	**0.92 J**	**1.2**	**2.1**	**2.7**	**2.6**
1,4-Dichlorobenzene	75	**3.8**	**4.1**	**4.4**	**4.6**	**3.8**	**3.4**	**3.8**	**8**	**11**	**11**
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	**3.3 J**
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	**32**	**22**	**670**
Benzene	1	**0.31 J**	**0.36 J**	**0.34 J**	**0.32 J**	**0.36 J**	**0.25 J**	**0.25 J**	**13** [A]	**16** [A]	**15** [A]
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.65 J**	**1.2**
Carbon tetrachloride	1	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	**2.8**	**3.3**	**3**	**3**	**3.2**	**2.6**	**2.4**	**40**	**51** [A]	**41**
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-4A	MW-4A	MW-4A	MW-4A	MW-4A	MW-4A	MW-4A	MW-5	MW-5	MW-5
Sample ID	Groundwater	MW4A-032415-1056	MW4A-060915-1132	MW4A-091515-1052	1000-091515-0003	MW4A-121515-1032	MW4A-302116-1247	MW4A-101816-0906	MW5-032415-1156	MW05-061015-1142	MW05-091515-1317
Lab Sample ID	Quality	460-92177-11	460-96192-8	460-101265-9	460-101265-3	460-106412-9	460-110804-13	460-122278-15	460-92177-12	460-96337-3	460-101265-10
Sample Date	Standard	03/24/2015	06/09/2015	09/15/2015	09/15/2015	12/15/2015	03/21/2016	10/18/2016	03/24/2015	06/10/2015	09/15/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.662**	**0.573**	**0.577**	-	**0.554**	**0.615**	**0.459**	**1.096**	**1.145**	**1.443**
Dissolved Oxygen, Field (mg/L)	-	**0.34**	**0.41**	**0.36**	-	**0.54**	**0.21**	**0.32**	**0.13**	**0.13**	**0.15**
ORP, Field (mV)	-	**-42.7**	**-31.4**	**-31.6**	-	**77.9**	**-337.4**	**-106.3**	**-63.8**	**-62.3**	**-86.2**
pH, Field (s.u)	-	**6.57**	**6.32**	**6.71**	-	**6.37**	**6.64**	**6.59**	**6.61**	**6.43**	**6.89**
Temperature (Deg C)	-	**10.79**	**14.2**	**14.8**	-	**14.05**	**12.49**	**14.65**	**8.46**	**12.6**	**17**
Turbidity, Field (NTU)	-	**33.1**	**5.8**	**7.2**	-	**12.5**	**21.5**	**19.4**	**24.9**	**34.9**	**63.8**
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	**2.3**	**3.7**	**2.7**	**2.7**	**1.6**	**1.8**	**2.3**	ND (1)	ND (1)	ND (1)
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1) F1*	ND (1)	ND (1)	**0.47 J**	**0.64 J**	**0.49 J**
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**3.1**	**5.4**	**0.72 J**
Isopropylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**11**	**27**	**27**
Volatile Organic Compounds (ug/L) (cont')											
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	**1.5**	**2.3**	**1.6**
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**1.8**	**0.4 J**	ND (1)	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**1.1**	**2.6**	**1.9**
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	**0.42 J**	**0.76 JF1**	**0.46 J**	**0.36 J**	ND (1)	**0.36 J**	**0.33 J**	ND (1)	ND (1)	ND (1)
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1) F1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	ND (1)	**0.47 J**	**0.44 J**	**0.41 J**	**0.21 J**	**0.32 J**	**0.33 J**	ND (1)	ND (1)	ND (1)
Xylene (total)	1000	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	**5.1**	**5.4**	**2.2**

Notes:
1. ND: Result is not detected above the indicated reporting limit.
   J: Estimated value
   B: Possible blank contamination
   E: Exceeds calibration limits
   F1: MS and/or MSD recovery exceeds the control limits.
   * - Recovery Exceeds control limits
2. Results in red exceed the following criteria:
   - Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-5	MW-5	MW-5	MW-5A	MW-5A	MW-5A	MW-5A	MW-5A	MW-5A	MW-6
Sample ID	Groundwater	MW05-121615-1027	MW05-032216-0826	MW05-101816-1246	MW5A-032515-0856	MW5A-061015-1243	MW05A-091515-1423	MW5A-121615-1342	MW5A-032216-0917	MW5A-101816-1341	MW06-032515-0951
Lab Sample ID	Quality	460-106433-15	460-110957-7	460-122278-16	460-92212-4	460-96337-4	460-101265-11	460-106433-16	460-110957-8	460-122278-17	460-92212-5
Sample Date	Standard	12/16/2015	03/22/2016	10/18/2016	03/25/2015	06/10/2015	09/15/2015	12/16/2015	03/22/2016	10/18/2016	03/25/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**1.329**	**1.44**	**0.997**	**0.699**	**0.607**	**0.669**	**0.578**	**0.712**	**0.504**	**0.421**
Dissolved Oxygen, Field (mg/L)	-	**0.19**	**0.25**	**0.2**	**0.22**	**0.19**	**0.28**	**0.27**	**0.22**	**0.15**	**0.21**
ORP, Field (mV)	-	**-118.3**	**-84.1**	**-86.4**	**-110.8**	**-67.5**	**-57.1**	**-36.2**	**-58.6**	**-88.7**	**35.8**
pH, Field (s.u)	-	**6.64**	**6.58**	**6.68**	**6.88**	**6.71**	**7**	**6.76**	**6.77**	**6.78**	**6.87**
Temperature (Deg C)	-	**13.95**	**10.2**	**19.24**	**12.43**	**12.2**	**15**	**13.68**	**11.88**	**15.38**	**9.56**
Turbidity, Field (NTU)	-	**40.2**	**4.96**	**9.73**	**21.9**	**9.7**	**11.3**	**7.32**	**29.1**	**39.6**	**12.8**
Inorganic Compounds - Total (ug/L)											
Cyanide	100	**7.1 J**	ND (10)	**3 J**	ND (10)	**7 JB**	ND (10)	ND (10)	ND (10)	**3.2 J**	ND (10)
Antimony, Total	6	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	**1.2 J**	ND (2)
Arsenic, Total	3	**23.4** [A]	**2.9**	**3.2** [A]	**3.4** [A]	**6** [A]	**3.4** [A]	**6.8** [A]	**2.8**	**7.5** [A]	**1.5 J**
Barium, Total	6000	**1790**	**1130**	**1260**	**633**	**486**	**408**	**499**	**523**	**532**	**422**
Beryllium, Total	1	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	**0.24 J**	ND (0.8)
Cadmium, Total	4	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	**1.8 J**
Chromium, Total	70	**11.4**	**3 J**	**5.7**	**4.4**	**13.6**	**8.5**	**22**	**7.1**	**37.3**	ND (4)
Chromium VI (Hexavalent), Total	NC	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	100	**8.9**	**1.5 J**	**2.1 J**	**7.2**	**20.4**	**13.6**	**41.5**	**9.2**	**21.1**	ND (4)
Copper, Total	1300	**54.2**	ND (4)	**9.6**	**8.7**	**26.1**	**13.2**	**15.3**	**7.1**	**121**	**59.9**
Lead, Total	5	**6.6** [A]	ND (1.2)	**1 J**	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	**0.58 J**	**0.82 J**
Manganese, Total	50	**733** [A]	**1090** [A]	**969** [A]	**6660** [A]	**6210** [A]	**5620** [A]	**6620** [A]	**6020** [A]	**6970** [A]	**216** [A]
Mercury, Total	2	**0.18 J**	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
Nickel, Total	100	**1110** [A]	**33.4**	**44.9**	**17.1**	**46.1**	**28.1**	**97.6**	**20.5**	**52.3**	**208** [A]
Selenium, Total	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Silver, Total	40	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Zinc, Total	2000	**2670** [A]	**12 J**	**69.9**	**7.1 J**	**42.7**	ND (16)	**17.6**	ND (16)	**134**	**2490** [A]
Inorganic Compounds - Dissolved (ug/L)											
Antimony, Dissolved	6	-	-	-	-	-	-	-	ND (2)	-	-
Arsenic, Dissolved	3	-	-	-	-	-	-	-	**1.3 J**	-	-
Barium, Dissolved	6000	-	-	-	-	-	-	-	**504**	-	-
Beryllium, Dissolved	1	-	-	-	-	-	-	-	ND (0.8)	-	-
Cadmium, Dissolved	4	-	-	-	-	-	-	-	ND (2)	-	-
Chromium, Dissolved	70	-	-	-	-	-	-	-	ND (4)	-	-
Cobalt, Dissolved	100	-	-	-	-	-	-	-	**1.7 J**	-	-
Copper, Dissolved	1300	-	-	-	-	-	-	-	ND (4)	-	-
Lead, Dissolved	5	-	-	-	-	-	-	-	ND (1.2)	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	**5500** [A]	-	-
Mercury, Dissolved	2	-	-	-	-	-	-	-	ND (0.2)	-	-
Nickel, Dissolved	100	-	-	-	-	-	-	-	**3.7 J**	-	-
Selenium, Dissolved	40	-	-	-	-	-	-	-	ND (10)	-	-
Silver, Dissolved	40	-	-	-	-	-	-	-	ND (2)	-	-
Zinc, Dissolved	2000	-	-	-	-	-	-	-	ND (16)	-	-
PCBs (ug/L)											
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-5	MW-5	MW-5	MW-5A	MW-5A	MW-5A	MW-5A	MW-5A	MW-5A	MW-6
Sample ID	Groundwater	MW05-121615-1027	MW05-032216-0826	MW05-101816-1246	MW5A-032515-0856	MW5A-061015-1243	MW05A-091515-1423	MW5A-121615-1342	MW5A-032216-0917	MW5A-101816-1341	MW06-032515-0951
Lab Sample ID	Quality	460-106433-15	460-110957-7	460-122278-16	460-92212-4	460-96337-4	460-101265-11	460-106433-16	460-110957-8	460-122278-17	460-92212-5
Sample Date	Standard	12/16/2015	03/22/2016	10/18/2016	03/25/2015	06/10/2015	09/15/2015	12/16/2015	03/22/2016	10/18/2016	03/25/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**1.329**	**1.44**	**0.997**	**0.699**	**0.607**	**0.669**	**0.578**	**0.712**	**0.504**	**0.421**
Dissolved Oxygen, Field (mg/L)	-	**0.19**	**0.25**	**0.2**	**0.22**	**0.19**	**0.28**	**0.27**	**0.22**	**0.15**	**0.21**
ORP, Field (mV)	-	**-118.3**	**-84.1**	**-86.4**	**-110.8**	**-67.5**	**-57.1**	**-36.2**	**-58.6**	**-88.7**	**35.8**
pH, Field (s.u)	-	**6.64**	**6.58**	**6.68**	**6.88**	**6.71**	**7**	**6.76**	**6.77**	**6.78**	**6.87**
Temperature (Deg C)	-	**13.95**	**10.2**	**19.24**	**12.43**	**12.2**	**15**	**13.68**	**11.88**	**15.38**	**9.56**
Turbidity, Field (NTU)	-	**40.2**	**4.96**	**9.73**	**21.9**	**9.7**	**11.3**	**7.32**	**29.1**	**39.6**	**12.8**
Semi-Volatile Organic Compounds (ug/L)											
2,2'-oxybis(1-Chloropropane)	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4,5-Trichlorophenol	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4,6-Trichlorophenol	20	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *
2,4-Dichlorophenol	20	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dimethylphenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dinitrophenol	40	ND (20)	ND (21)	ND (21)	ND (21)	ND (21)	ND (21)	ND (20)	ND (20)	ND (21)	ND (21)
2,4-Dinitrotoluene	10	ND (2)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.1)
2,6-Dinitrotoluene	10	ND (2)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.1)
2-Chloronaphthalene	600	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Chlorophenol	40	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)
2-Methylnaphthalene	30	**1.7 J**	**2.6 J**	**3.6 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Methylphenol	50	ND (10) *	ND (10) *	ND (10) *	ND (10)	ND (10)	ND (10) *	ND (10) *	ND (10) *	ND (10) *	ND (10)
2-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Nitrophenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3,3'-Dichlorobenzidine	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4,6-Dinitro-2-methylphenol	1	ND (20)	ND (21)	ND (21)	ND (21)	ND (21)	ND (21)	ND (20)	ND (20)	ND (21)	ND (21)
4-Bromophenyl phenyl ether	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloro-3-methylphenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloroaniline	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chlorophenyl phenyl ether	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Methylphenol	50	ND (10)	ND (10)	**1.1 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitrophenol	100	ND (20)	ND (21)	ND (21)	ND (21)	ND (21)	ND (21)	ND (20)	ND (20)	ND (21)	ND (21)
Acenaphthene	400	**2 J**	**4.5 J**	**6.4 J**	ND (10)	ND (10)	ND (10)	**1.2 J**	**1.2 J**	ND (10)	ND (10)
Acenaphthylene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Acetophenone	700	ND (10)	ND (10)	**1.4 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Anthracene	2000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Atrazine	3	ND (2)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.1)
Benzaldehyde	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzo(a)anthracene	0.1	ND (0.05)	ND (0.26)	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.05)	**0.068**	ND (0.052)
Benzo(a)pyrene	0.1	**0.036 J**	ND (0.26)	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.05)	ND (0.052)	ND (0.052)
Benzo(b)fluoranthene	0.2	**0.049 J**	ND (0.26) *	**0.019 J**	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.05) *	**0.035 J**	ND (0.052)
Benzo(g,h,i)perylene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzo(k)fluoranthene	0.5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Biphenyl	400	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethoxy)methane	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethyl)ether	7	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
bis(2-Ethylhexyl)phthalate	3	ND (2)	ND (2.1)	ND (2.1)	ND (2.1)	7.4 [A]	5.4 [A]	ND (2)	ND (2)	ND (2.1)	ND (2.1)
Butyl benzylphthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	**5.1 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Caprolactam	5000	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10) *	ND (10)	ND (10)	ND (10)
Carbazole	100	ND (10)	**0.91 J**	**0.98 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Chrysene	5	ND (2)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.1)
Dibenz(a,h)anthracene	0.3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibenzofuran	100	ND (10)	**1.4 J**	**2.5 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Diethyl phthalate	6000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-5	MW-5	MW-5	MW-5A	MW-5A	MW-5A	MW-5A	MW-5A	MW-5A	MW-6
Sample ID	Groundwater	MW05-121615-1027	MW05-032216-0826	MW05-101816-1246	MW5A-032515-0856	MW5A-061015-1243	MW05A-091515-1423	MW5A-121615-1342	MW5A-032216-0917	MW5A-101816-1341	MW06-032515-0951
Lab Sample ID	Quality	460-106433-15	460-110957-7	460-122278-16	460-92212-4	460-96337-4	460-101265-11	460-106433-16	460-110957-8	460-122278-17	460-92212-5
Sample Date	Standard	12/16/2015	03/22/2016	10/18/2016	03/25/2015	06/10/2015	09/15/2015	12/16/2015	03/22/2016	10/18/2016	03/25/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**1.329**	**1.44**	**0.997**	**0.699**	**0.607**	**0.669**	**0.578**	**0.712**	**0.504**	**0.421**
Dissolved Oxygen, Field (mg/L)	-	**0.19**	**0.25**	**0.2**	**0.22**	**0.19**	**0.28**	**0.27**	**0.22**	**0.15**	**0.21**
ORP, Field (mV)	-	**-118.3**	**-84.1**	**-86.4**	**-110.8**	**-67.5**	**-57.1**	**-36.2**	**-58.6**	**-88.7**	**35.8**
pH, Field (s.u)	-	**6.64**	**6.58**	**6.68**	**6.88**	**6.71**	**7**	**6.76**	**6.77**	**6.78**	**6.87**
Temperature (Deg C)	-	**13.95**	**10.2**	**19.24**	**12.43**	**12.2**	**15**	**13.68**	**11.88**	**15.38**	**9.56**
Turbidity, Field (NTU)	-	**40.2**	**4.96**	**9.73**	**21.9**	**9.7**	**11.3**	**7.32**	**29.1**	**39.6**	**12.8**
Dimethyl phthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Di-n-butylphthalate	700	ND (10)	ND (10)	ND (10)	ND (10)	**1.2 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Di-n-octyl phthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Fluoranthene	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Fluorene	300	**0.91 J**	**2.2 J**	**4.4 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Semi-Volatile Organic Compounds (ug/L) (con't)											
Hexachlorobenzene	0.02	ND (0.02) *	ND (0.1) *	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.02) *	ND (0.02) *	ND (0.021)	ND (0.021)
Hexachlorobutadiene	1	ND (1) *	ND (1) *	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1) *	ND (1) *	ND (1)	ND (1)
Hexachlorocyclopentadiene	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Hexachloroethane	7	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Indeno(1,2,3-cd)pyrene	0.2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isophorone	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Naphthalene	300	ND (10)	**2.7 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Nitrobenzene	6	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
N-Nitrosodi-n-propylamine	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
N-Nitrosodiphenylamine	10	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pentachlorophenol	0.3	ND (0.2)	ND (1)	**0.11 J**	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.2)	ND (0.2)	ND (0.21)	ND (0.21)
Phenanthrene	100	**0.69 J**	**1.2 J**	**2.8 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Phenol	2000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pyrene	200	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Volatile Organic Compounds (ug/L)											
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	**0.35 J**	ND (1)	ND (1)	ND (1)	**0.48 J**	ND (1)	ND (1)
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	**0.32 J**	ND (1)	ND (1)	ND (1)	**0.67 J**	ND (1)	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	**0.4 J**	**0.29 J**	**0.37 J**	**0.28 J**	**0.33 J**	**0.28 J**	**0.4 J**	**0.24 J**	ND (1)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	**2.2**	**3.1**	**2.4**	**0.69 J**	**0.49 J**	**0.57 J**	**0.42 J**	**0.54 J**	**0.49 J**	ND (1)
1,4-Dichlorobenzene	75	**8.5**	**13**	**11**	**2.9**	**2.5**	**2.6**	**2**	**2.7**	**2.3**	**0.63 J**
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	**31**	ND (5)	**9.7**	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Benzene	1	**13** [A]	**18** [A]	**11** [A]	**1.9** [A]	**2.1** [A]	**2.4** [A]	**2.3** [A]	**2.5** [A]	**2** [A]	**2.6** [A]
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	**26**	**49**	**32**	**22**	**25**	**24**	**23**	**23**	**18**	**5.2**
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-5	MW-5	MW-5	MW-5A	MW-5A	MW-5A	MW-5A	MW-5A	MW-5A	MW-6
Sample ID	Groundwater	MW05-121615-1027	MW05-032216-0826	MW05-101816-1246	MW5A-032515-0856	MW5A-061015-1243	MW05A-091515-1423	MW5A-121615-1342	MW5A-032216-0917	MW5A-101816-1341	MW06-032515-0951
Lab Sample ID	Quality	460-106433-15	460-110957-7	460-122278-16	460-92212-4	460-96337-4	460-101265-11	460-106433-16	460-110957-8	460-122278-17	460-92212-5
Sample Date	Standard	12/16/2015	03/22/2016	10/18/2016	03/25/2015	06/10/2015	09/15/2015	12/16/2015	03/22/2016	10/18/2016	03/25/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**1.329**	**1.44**	**0.997**	**0.699**	**0.607**	**0.669**	**0.578**	**0.712**	**0.504**	**0.421**
Dissolved Oxygen, Field (mg/L)	-	**0.19**	**0.25**	**0.2**	**0.22**	**0.19**	**0.28**	**0.27**	**0.22**	**0.15**	**0.21**
ORP, Field (mV)	-	**-118.3**	**-84.1**	**-86.4**	**-110.8**	**-67.5**	**-57.1**	**-36.2**	**-58.6**	**-88.7**	**35.8**
pH, Field (s.u)	-	**6.64**	**6.58**	**6.68**	**6.88**	**6.71**	**7**	**6.76**	**6.77**	**6.78**	**6.87**
Temperature (Deg C)	-	**13.95**	**10.2**	**19.24**	**12.43**	**12.2**	**15**	**13.68**	**11.88**	**15.38**	**9.56**
Turbidity, Field (NTU)	-	**40.2**	**4.96**	**9.73**	**21.9**	**9.7**	**11.3**	**7.32**	**29.1**	**39.6**	**12.8**
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	ND (1)	ND (1)	ND (1)	**18**	**5.6**	**1.7**	**1.5**	**7.8**	**0.89 J**	ND (1)
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	**0.63 J**	**0.48 J**	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	**2.2**	**13**	**1.2**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isopropylbenzene	700	**17**	**44**	**30**	ND (1)	ND (1)	ND (1)	ND (1)	**0.43 J**	ND (1)	ND (1)
Volatile Organic Compounds (ug/L) (cont')											
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	**2.3 ***	**2.1**	**1.2**	ND (1) *	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1) *
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	ND (1)	ND (1)	**2.7**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**1.6**	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	600	**3.4**	**0.93 J**	**0.55 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	**0.28 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	ND (1)	ND (1)	ND (1)	**3.3** [A]	**0.46 J**	ND (1)	ND (1)	**5.1** [A]	ND (1)	ND (1)
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	ND (1)	ND (1)	ND (1)	**3.5** [A]	**3.3** [A]	**2** [A]	**1.7** [A]	**2.7** [A]	**1.4** [A]	ND (1)
Xylene (total)	1000	**6.8**	**4.2**	**0.34 J**	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	**0.32 J**

Notes:
1. ND: Result is not detected above the indicated reporting limit.
   J: Estimated value
   B: Possible blank contamination
   E: Exceeds calibration limits
   F1: MS and/or MSD recovery exceeds the control limits.
   * - Recovery Exceeds control limits
2. Results in red exceed the following criteria:
   - Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-6	MW-6	MW-6	MW-6	MW-6	MW-6A	MW-6A	MW-6A	MW-6A	MW-6A
Sample ID	Groundwater	MW06-060915-1157	MW06-091515-1416	MW06-121515-1252	MW06-032216-1111	MW06-102016-1016	MW6A-032515-1032	MW6A-061015-0916	MW06A-091515-1212	MW6A-121515-1347	MW6A-032216-1212
Lab Sample ID	Quality	460-96192-4	460-101265-12	460-106412-12	460-110957-10	460-122534-3	460-92212-6	460-96337-5	460-101265-13	460-106412-13	460-110957-11
Sample Date	Standard	06/09/2015	09/15/2015	12/15/2015	03/22/2016	10/20/2016	03/25/2015	06/10/2015	09/15/2015	12/15/2015	03/22/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.775**	**0.717**	**0.486**	**0.745**	**1.008**	**0.665**	**1.04**	**1.043**	**1.012**	**0.567**
Dissolved Oxygen, Field (mg/L)	-	**0.46**	**2.25**	**1.99**	**1.21**	**0.28**	**0.13**	**0.27**	**0.27**	**0.32**	**0.11**
ORP, Field (mV)	-	**-63.2**	**-6.9**	**-106.3**	**54.6**	**-72.9**	**-102.6**	**-50.1**	**-40.5**	**-30.5**	**58.9**
pH, Field (s.u)	-	**6.9**	**6.39**	**6.93**	**6.66**	**6.61**	**6.9**	**6.64**	**6.71**	**6.62**	**6.86**
Temperature (Deg C)	-	**18.6**	**20.4**	**15.3**	**11.41**	**19.23**	**12.07**	**14.5**	**16.7**	**14.36**	**13.06**
Turbidity, Field (NTU)	-	**9**	**13**	**8.4**	**9.69**	**44.3**	**31**	**74.2**	**8.2**	**8.62**	**216**
Inorganic Compounds - Total (ug/L)											
Cyanide	100	ND (10)	ND (10)	ND (10)	ND (10)	**3.8 J**	ND (10)	**6.5 JB**	ND (10)	**4.7 J**	ND (10)
Antimony, Total	6	ND (2)	**1.4 J**	**1.3 J**	ND (2)	**0.83 J**	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Arsenic, Total	3	**3.9** [A]	**2**	**6** [A]	**1.1 J**	**7.3** [A]	**2.9**	**5.2** [A]	**6.8** [A]	**8.1** [A]	**1.6 J**
Barium, Total	6000	**628**	**546**	**515**	**578**	**1300**	**751**	**1200**	**1220**	**1320**	**381**
Beryllium, Total	1	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)
Cadmium, Total	4	ND (2)	**1.8 J**	**2.6**	**1.3 J**	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Chromium, Total	70	ND (4)	ND (4)	**4.3**	ND (4)	**10.5**	ND (4)	ND (4)	ND (4)	**1.9 J**	ND (4)
Chromium VI (Hexavalent), Total	NC	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	100	**3.1 J**	ND (4)	ND (4)	**1.8 J**	**3.9 J**	**4**	**10.3**	**17.3**	**26.1**	**2 J**
Copper, Total	1300	**22.5**	**78.8**	**91.6**	**56.9**	**66**	ND (4)	ND (4)	ND (4)	**3.8 J**	ND (4)
Lead, Total	5	**0.54 J**	ND (1.2)	**2.5**	ND (1.2)	**7.8** [A]	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
Manganese, Total	50	**596** [A]	**98.1** [A]	**115** [A]	**425** [A]	**621** [A]	**4200** [A]	**6610** [A]	**7250** [A]	**8640** [A]	**916** [A]
Mercury, Total	2	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
Nickel, Total	100	**215** [A]	**167** [A]	**176** [A]	**146** [A]	**137** [A]	**8.7**	**22**	**38.9**	**70**	**6.2**
Selenium, Total	40	ND (10)	ND (10)	ND (25)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Silver, Total	40	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Zinc, Total	2000	**2600** [A]	**1710**	**1970**	**1820**	**1280**	ND (16)	**7.7 J**	ND (16)	**18.3**	ND (16)
Inorganic Compounds - Dissolved (ug/L)											
Antimony, Dissolved	6	-	-	-	-	-	-	-	-	-	ND (2)
Arsenic, Dissolved	3	-	-	-	-	-	-	-	-	-	ND (2)
Barium, Dissolved	6000	-	-	-	-	-	-	-	-	-	**346**
Beryllium, Dissolved	1	-	-	-	-	-	-	-	-	-	ND (0.8)
Cadmium, Dissolved	4	-	-	-	-	-	-	-	-	-	ND (2)
Chromium, Dissolved	70	-	-	-	-	-	-	-	-	-	ND (4)
Cobalt, Dissolved	100	-	-	-	-	-	-	-	-	-	ND (4)
Copper, Dissolved	1300	-	-	-	-	-	-	-	-	-	ND (4)
Lead, Dissolved	5	-	-	-	-	-	-	-	-	-	ND (1.2)
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	**855** [A]
Mercury, Dissolved	2	-	-	-	-	-	-	-	-	-	ND (0.2)
Nickel, Dissolved	100	-	-	-	-	-	-	-	-	-	**5.3**
Selenium, Dissolved	40	-	-	-	-	-	-	-	-	-	ND (10)
Silver, Dissolved	40	-	-	-	-	-	-	-	-	-	ND (2)
Zinc, Dissolved	2000	-	-	-	-	-	-	-	-	-	ND (16)
PCBs (ug/L)											
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-6	MW-6	MW-6	MW-6	MW-6	MW-6A	MW-6A	MW-6A	MW-6A	MW-6A
Sample ID	Groundwater	MW06-060915-1157	MW06-091515-1416	MW06-121515-1252	MW06-032216-1111	MW06-102016-1016	MW6A-032515-1032	MW6A-061015-0916	MW06A-091515-1212	MW6A-121515-1347	MW6A-032216-1212
Lab Sample ID	Quality	460-96192-4	460-101265-12	460-106412-12	460-110957-10	460-122534-3	460-92212-6	460-96337-5	460-101265-13	460-106412-13	460-110957-11
Sample Date	Standard	06/09/2015	09/15/2015	12/15/2015	03/22/2016	10/20/2016	03/25/2015	06/10/2015	09/15/2015	12/15/2015	03/22/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.775**	**0.717**	**0.486**	**0.745**	**1.008**	**0.665**	**1.04**	**1.043**	**1.012**	**0.567**
Dissolved Oxygen, Field (mg/L)	-	**0.46**	**2.25**	**1.99**	**1.21**	**0.28**	**0.13**	**0.27**	**0.27**	**0.32**	**0.11**
ORP, Field (mV)	-	**-63.2**	**-6.9**	**-106.3**	**54.6**	**-72.9**	**-102.6**	**-50.1**	**-40.5**	**-30.5**	**58.9**
pH, Field (s.u)	-	**6.9**	**6.39**	**6.93**	**6.66**	**6.61**	**6.9**	**6.64**	**6.71**	**6.62**	**6.86**
Temperature (Deg C)	-	**18.6**	**20.4**	**15.3**	**11.41**	**19.23**	**12.07**	**14.5**	**16.7**	**14.36**	**13.06**
Turbidity, Field (NTU)	-	**9**	**13**	**8.4**	**9.69**	**44.3**	**31**	**74.2**	**8.2**	**8.62**	**216**
Semi-Volatile Organic Compounds (ug/L)											
2,2'-oxybis(1-Chloropropane)	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4,5-Trichlorophenol	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4,6-Trichlorophenol	20	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dichlorophenol	20	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dimethylphenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dinitrophenol	40	ND (21)	ND (21)	ND (21)	ND (20)	ND (20)	ND (21)	ND (21)	ND (21)	ND (21)	ND (20)
2,4-Dinitrotoluene	10	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)
2,6-Dinitrotoluene	10	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)
2-Chloronaphthalene	600	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Chlorophenol	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	**0.98 J**	ND (10)	ND (10)
2-Methylnaphthalene	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Methylphenol	50	ND (10) *	ND (10) *	ND (10)	ND (10) *	ND (10) *	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10) *
2-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Nitrophenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3,3'-Dichlorobenzidine	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4,6-Dinitro-2-methylphenol	1	ND (21)	ND (21)	ND (21)	ND (20)	ND (20)	ND (21)	ND (21)	ND (21)	ND (21)	ND (20)
4-Bromophenyl phenyl ether	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloro-3-methylphenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloroaniline	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chlorophenyl phenyl ether	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Methylphenol	50	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitrophenol	100	ND (21)	ND (21)	ND (21)	ND (20)	ND (20)	ND (21)	ND (21)	ND (21)	ND (21)	ND (20)
Acenaphthene	400	ND (10)	ND (10)	ND (10)	ND (10)	**1.7 J**	**1.1 J**	**2.8 J**	**4 J**	**3.2 J**	ND (10)
Acenaphthylene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Acetophenone	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Anthracene	2000	ND (10)	ND (10)	ND (10)	ND (10)	**0.65 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Atrazine	3	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)
Benzaldehyde	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzo(a)anthracene	0.1	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05)	**0.094**	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05)
Benzo(a)pyrene	0.1	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05)	**0.048 J**	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05)
Benzo(b)fluoranthene	0.2	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05) *	**0.076**	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05) *
Benzo(g,h,i)perylene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzo(k)fluoranthene	0.5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Biphenyl	400	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethoxy)methane	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethyl)ether	7	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
bis(2-Ethylhexyl)phthalate	3	**0.85 J**	**6.3** [A]	ND (2.1)	ND (2)	ND (2)	ND (2.1)	**3.2** [A]	**6** [A]	ND (2.1)	ND (2)
Butyl benzylphthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Caprolactam	5000	ND (10)	ND (10) *	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10) *	ND (10)
Carbazole	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Chrysene	5	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)
Dibenz(a,h)anthracene	0.3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibenzofuran	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Diethyl phthalate	6000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-6	MW-6	MW-6	MW-6	MW-6	MW-6A	MW-6A	MW-6A	MW-6A	MW-6A
Sample ID	Groundwater	MW06-060915-1157	MW06-091515-1416	MW06-121515-1252	MW06-032216-1111	MW06-102016-1016	MW6A-032515-1032	MW6A-061015-0916	MW06A-091515-1212	MW6A-121515-1347	MW6A-032216-1212
Lab Sample ID	Quality	460-96192-4	460-101265-12	460-106412-12	460-110957-10	460-122534-3	460-92212-6	460-96337-5	460-101265-13	460-106412-13	460-110957-11
Sample Date	Standard	06/09/2015	09/15/2015	12/15/2015	03/22/2016	10/20/2016	03/25/2015	06/10/2015	09/15/2015	12/15/2015	03/22/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.775**	**0.717**	**0.486**	**0.745**	**1.008**	**0.665**	**1.04**	**1.043**	**1.012**	**0.567**
Dissolved Oxygen, Field (mg/L)	-	**0.46**	**2.25**	**1.99**	**1.21**	**0.28**	**0.13**	**0.27**	**0.27**	**0.32**	**0.11**
ORP, Field (mV)	-	**-63.2**	**-6.9**	**-106.3**	**54.6**	**-72.9**	**-102.6**	**-50.1**	**-40.5**	**-30.5**	**58.9**
pH, Field (s.u)	-	**6.9**	**6.39**	**6.93**	**6.66**	**6.61**	**6.9**	**6.64**	**6.71**	**6.62**	**6.86**
Temperature (Deg C)	-	**18.6**	**20.4**	**15.3**	**11.41**	**19.23**	**12.07**	**14.5**	**16.7**	**14.36**	**13.06**
Turbidity, Field (NTU)	-	**9**	**13**	**8.4**	**9.69**	**44.3**	**31**	**74.2**	**8.2**	**8.62**	**216**
Dimethyl phthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Di-n-butylphthalate	700	ND (10)	ND (10)	ND (10)	ND (10)	**1.1 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Di-n-octyl phthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Fluoranthene	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Fluorene	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	**2 J**	**2.9 J**	**2.1 J**	ND (10)
Semi-Volatile Organic Compounds (ug/L) (con't)											
Hexachlorobenzene	0.02	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.02) *	ND (0.02)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.02) *
Hexachlorobutadiene	1	ND (1) *	ND (1)	ND (1) *	ND (1) *	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1) *	ND (1) *
Hexachlorocyclopentadiene	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Hexachloroethane	7	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Indeno(1,2,3-cd)pyrene	0.2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isophorone	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Naphthalene	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Nitrobenzene	6	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
N-Nitrosodi-n-propylamine	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
N-Nitrosodiphenylamine	10	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pentachlorophenol	0.3	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.2)	**0.16 J**	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.2)
Phenanthrene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Phenol	2000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pyrene	200	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)
Volatile Organic Compounds (ug/L)											
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.3 J**
1,1-Dichloroethane	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.53 J**	ND (1)	ND (1)	ND (1)	**0.39 J**
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	**0.26 J**	ND (1)	**0.32 J**	**0.31 J**	**0.26 J**	ND (1)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.29 J**	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	**0.56 J**	**0.81 J**	**0.39 J**	**0.98 J**	**1.4**	**1.1**	ND (1)
1,4-Dichlorobenzene	75	**1.1**	ND (1)	ND (1)	**1.7**	**2.9**	**1.6**	**4.5**	**5.3**	**4.7**	ND (1)
1,4-Dioxane	0.4	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	**14**	ND (5)	ND (5)	ND (5)
Benzene	1	**4.6** [A]	**0.13 J**	**0.22 J**	**8.1** [A]	**12** [A]	**4** [A]	**11** [A]	**15** [A]	**13** [A]	**0.11 J**
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	**12**	**0.53 J**	**0.79 J**	**22**	**45**	**28**	**110** [A]	**140** [A]	**130** [A]	**0.93 J**
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-6	MW-6	MW-6	MW-6	MW-6	MW-6A	MW-6A	MW-6A	MW-6A	MW-6A
Sample ID	Groundwater	MW06-060915-1157	MW06-091515-1416	MW06-121515-1252	MW06-032216-1111	MW06-102016-1016	MW6A-032515-1032	MW6A-061015-0916	MW06A-091515-1212	MW6A-121515-1347	MW6A-032216-1212
Lab Sample ID	Quality	460-96192-4	460-101265-12	460-106412-12	460-110957-10	460-122534-3	460-92212-6	460-96337-5	460-101265-13	460-106412-13	460-110957-11
Sample Date	Standard	06/09/2015	09/15/2015	12/15/2015	03/22/2016	10/20/2016	03/25/2015	06/10/2015	09/15/2015	12/15/2015	03/22/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.775**	**0.717**	**0.486**	**0.745**	**1.008**	**0.665**	**1.04**	**1.043**	**1.012**	**0.567**
Dissolved Oxygen, Field (mg/L)	-	**0.46**	**2.25**	**1.99**	**1.21**	**0.28**	**0.13**	**0.27**	**0.27**	**0.32**	**0.11**
ORP, Field (mV)	-	**-63.2**	**-6.9**	**-106.3**	**54.6**	**-72.9**	**-102.6**	**-50.1**	**-40.5**	**-30.5**	**58.9**
pH, Field (s.u)	-	**6.9**	**6.39**	**6.93**	**6.66**	**6.61**	**6.9**	**6.64**	**6.71**	**6.62**	**6.86**
Temperature (Deg C)	-	**18.6**	**20.4**	**15.3**	**11.41**	**19.23**	**12.07**	**14.5**	**16.7**	**14.36**	**13.06**
Turbidity, Field (NTU)	-	**9**	**13**	**8.4**	**9.69**	**44.3**	**31**	**74.2**	**8.2**	**8.62**	**216**
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.61 J**
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**4.4**	**3.9**	**2**	**1.6**	**4.2**
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1) *	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isopropylbenzene	700	ND (1)	ND (1)	ND (1)	**0.65 J**	ND (1)	**0.68 J**	**0.79 J**	**0.34 J**	ND (1)	ND (1)
Volatile Organic Compounds (ug/L) (cont')											
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1) *	ND (1)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.22 J**	ND (1)	ND (1)	ND (1)	**0.19 J**
Methylene chloride	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.5 J**	ND (1)	ND (1)	ND (1)	**0.81 J**
Toluene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.21 J**	ND (1)	ND (1)	ND (1)	**0.33 J**
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**2.9** [A]	ND (1)	ND (1)	ND (1)	**1.7** [A]
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.39 J**
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.38 J**	**0.88 J**	**1.5** [A]	**0.88 J**	ND (1)
Xylene (total)	1000	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)

Notes:
1. ND: Result is not detected above the indicated reporting limit.
   J: Estimated value
   B: Possible blank contamination
   E: Exceeds calibration limits
   F1: MS and/or MSD recovery exceeds the control limits.
   * - Recovery Exceeds control limits
2. Results in red exceed the following criteria:
   - Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-6A	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-77	MW-15	MW-15
Sample ID	Groundwater	MW6A-102016-0911	MW07-032515-1001	MW07-061115-1033	MW07-091615-1213	MW07-121715-1107	MW07-302116-1002	MW07-102016-1216	MW77-032615-0903	MW15-033115-0919	MW15-061215-1001
Lab Sample ID	Quality	460-122534-4	460-92212-9	460-96327-9	460-101215-12	460-106444-3	460-110804-11	460-122534-5	460-92288-9	460-92615-4	460-96394-5
Sample Date	Standard	10/20/2016	03/25/2015	06/11/2015	09/16/2015	12/17/2015	03/21/2016	10/20/2016	03/26/2015	03/31/2015	06/12/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.994**	**0.476**	**0.913**	**0.809**	**0.599**	**0.99**	**1.373**	**1.275**	**1.633**	**0.999**
Dissolved Oxygen, Field (mg/L)	-	**0.65**	**0.44**	**0.23**	**0.44**	**0.69**	**0.56**	**0.28**	**2.35**	**7.22**	**3.83**
ORP, Field (mV)	-	**-88.2**	**-43**	**-2.8**	**-108.7**	**-95.2**	**-317.6**	**-63.3**	**-0.04**	**246.3**	**217.1**
pH, Field (s.u)	-	**6.53**	**7.01**	**6.44**	**6.3**	**6.5**	**6.55**	**6.43**	**6.68**	**5.11**	**5.13**
Temperature (Deg C)	-	**14.48**	**7.93**	**16.7**	**19.6**	**11.7**	**10.07**	**17.83**	**14.78**	**9.44**	**16.6**
Turbidity, Field (NTU)	-	**12.4**	**7.49**	**21.1**	**23.2**	**999**	**10**	**56**	**999**	**1.86**	**30.4**
Inorganic Compounds - Total (ug/L)											
Cyanide	100	**3.1 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	**4.3 J**	ND (10)	ND (10)	**4.1 JB**
Antimony, Total	6	ND (2)	ND (2)	**0.9 J**	**2.6**	**27.4** [A]	**0.81 J**	**1.1 J**	**5.1**	ND (2)	ND (2)
Arsenic, Total	3	**4.7** [A]	ND (2)	**1.5 J**	**5** [A]	**13.8** [A]	**1.8 J**	**3.6** [A]	**14.5** [A]	ND (2)	**0.74 J**
Barium, Total	6000	**1320**	**761**	**1540**	**3350**	**3970**	**6190** [A]	**1340**	**706**	**334**	**419**
Beryllium, Total	1	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	**2.2** [A]	**1.1** [A]	**2** [A]
Cadmium, Total	4	ND (2)	ND (2)	**3**	ND (2)	**14.9** [A]	ND (2)	**1.9 J**	**1.1 J**	ND (2)	ND (2)
Chromium, Total	70	**1.6 J**	ND (4)	**4.6**	**13.5**	**24.3**	**6.3**	**138** [A]	**604** [A]	**70.9** [A]	**528** [A]
Chromium VI (Hexavalent), Total	NC	-	-	-	-	-	-	-	ND (10)	-	-
Cobalt, Total	100	**12.3**	ND (4)	**3.6 J**	ND (4)	**12.9**	ND (4)	**4.8**	**22.7**	ND (4)	ND (4)
Copper, Total	1300	**1.6 J**	**19.5**	**208**	**36.1**	**1200**	**15.3**	**63.5**	**252**	**2.9 J**	**4.9**
Lead, Total	5	ND (1.2)	**1.5**	**6.7** [A]	**8.1** [A]	**60.4** [A]	**2.9**	**50.8** [A]	**153** [A]	ND (1.2)	**0.6 J**
Manganese, Total	50	**6540** [A]	**218** [A]	**461** [A]	**377** [A]	**432** [A]	**413** [A]	**514** [A]	**1720** [A]	**19**	**27.2**
Mercury, Total	2	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	**0.15 J**
Nickel, Total	100	**26.8**	**27.5**	**390** [A]	**51.6**	**1430** [A]	**18.6**	**262** [A]	**408** [A]	**27.6**	**36.2**
Selenium, Total	40	ND (10)	ND (10)	ND (10)	ND (10)	**0.96 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Silver, Total	40	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Zinc, Total	2000	**16.3**	**289**	**2210** [A]	**587**	**17800** [A]	**193**	**3880** [A]	**2300** [A]	**13.8 J**	**16.6**
Inorganic Compounds - Dissolved (ug/L)											
Antimony, Dissolved	6	-	-	-	-	-	-	-	-	-	-
Arsenic, Dissolved	3	-	-	-	-	-	-	-	-	-	-
Barium, Dissolved	6000	-	-	-	-	-	-	-	-	-	-
Beryllium, Dissolved	1	-	-	-	-	-	-	-	-	-	-
Cadmium, Dissolved	4	-	-	-	-	-	-	-	-	-	-
Chromium, Dissolved	70	-	-	-	-	-	-	-	-	-	-
Cobalt, Dissolved	100	-	-	-	-	-	-	-	-	-	-
Copper, Dissolved	1300	-	-	-	-	-	-	-	-	-	-
Lead, Dissolved	5	-	-	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-
Mercury, Dissolved	2	-	-	-	-	-	-	-	-	-	-
Nickel, Dissolved	100	-	-	-	-	-	-	-	-	-	-
Selenium, Dissolved	40	-	-	-	-	-	-	-	-	-	-
Silver, Dissolved	40	-	-	-	-	-	-	-	-	-	-
Zinc, Dissolved	2000	-	-	-	-	-	-	-	-	-	-
PCBs (ug/L)											
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-6A	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-77	MW-15	MW-15
Sample ID	Groundwater	MW6A-102016-0911	MW07-032515-1001	MW07-061115-1033	MW07-091615-1213	MW07-121715-1107	MW07-302116-1002	MW07-102016-1216	MW77-032615-0903	MW15-033115-0919	MW15-061215-1001
Lab Sample ID	Quality	460-122534-4	460-92212-9	460-96327-9	460-101215-12	460-106444-3	460-110804-11	460-122534-5	460-92288-9	460-92615-4	460-96394-5
Sample Date	Standard	10/20/2016	03/25/2015	06/11/2015	09/16/2015	12/17/2015	03/21/2016	10/20/2016	03/26/2015	03/31/2015	06/12/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.994**	**0.476**	**0.913**	**0.809**	**0.599**	**0.99**	**1.373**	**1.275**	**1.633**	**0.999**
Dissolved Oxygen, Field (mg/L)	-	**0.65**	**0.44**	**0.23**	**0.44**	**0.69**	**0.56**	**0.28**	**2.35**	**7.22**	**3.83**
ORP, Field (mV)	-	**-88.2**	**-43**	**-2.8**	**-108.7**	**-95.2**	**-317.6**	**-63.3**	**-0.04**	**246.3**	**217.1**
pH, Field (s.u)	-	**6.53**	**7.01**	**6.44**	**6.3**	**6.5**	**6.55**	**6.43**	**6.68**	**5.11**	**5.13**
Temperature (Deg C)	-	**14.48**	**7.93**	**16.7**	**19.6**	**11.7**	**10.07**	**17.83**	**14.78**	**9.44**	**16.6**
Turbidity, Field (NTU)	-	**12.4**	**7.49**	**21.1**	**23.2**	**999**	**10**	**56**	**999**	**1.86**	**30.4**
Semi-Volatile Organic Compounds (ug/L)											
2,2'-oxybis(1-Chloropropane)	300	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4,5-Trichlorophenol	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4,6-Trichlorophenol	20	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dichlorophenol	20	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dimethylphenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)
2,4-Dinitrophenol	40	ND (20)	ND (21)	ND (21)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (21) F2	ND (20)
2,4-Dinitrotoluene	10	ND (2)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2.1) F1	ND (2)
2,6-Dinitrotoluene	10	ND (2)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2.1) F1	ND (2)
2-Chloronaphthalene	600	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Chlorophenol	40	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10) *	ND (10) *	ND (10)
2-Methylnaphthalene	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	**1.1 J**	ND (10)	ND (10)	ND (10)	ND (10)
2-Methylphenol	50	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10) *	ND (10) *	ND (10) *	ND (10) *
2-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)
2-Nitrophenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3,3'-Dichlorobenzidine	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4,6-Dinitro-2-methylphenol	1	ND (20)	ND (21)	ND (21)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (21)	ND (20)
4-Bromophenyl phenyl ether	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloro-3-methylphenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloroaniline	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chlorophenyl phenyl ether	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Methylphenol	50	ND (10)	ND (10)	ND (10)	**3.3 J**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitrophenol	100	ND (20)	ND (21)	ND (21)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (21)	ND (20)
Acenaphthene	400	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Acenaphthylene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)
Acetophenone	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Anthracene	2000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Atrazine	3	ND (2)	ND (2.1)	ND (2.1)	ND (2) *	ND (2)	ND (2)	ND (2)	ND (2)	ND (2.1) F1	ND (2) *
Benzaldehyde	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzo(a)anthracene	0.1	ND (0.051)	ND (0.052)	ND (0.052)	ND (0.05)	**0.062**	ND (0.05) *	**0.18** [A]	ND (0.05)	ND (0.052)	ND (0.05)
Benzo(a)pyrene	0.1	ND (0.051)	ND (0.052)	ND (0.052)	ND (0.05)	**0.09**	ND (0.05) *	**0.13** [A]	ND (0.05)	ND (0.052)	ND (0.05)
Benzo(b)fluoranthene	0.2	ND (0.051)	ND (0.052)	ND (0.052)	**0.016 J**	**0.16 ***	ND (0.05) *	**0.23** [A]	**0.059**	ND (0.052)	ND (0.05)
Benzo(g,h,i)perylene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzo(k)fluoranthene	0.5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Biphenyl	400	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethoxy)methane	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethyl)ether	7	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)
bis(2-Ethylhexyl)phthalate	3	ND (2)	ND (2.1)	ND (2.1)	**19 B*** [A]	ND (2) *	ND (2)	**1.7 J**	ND (2)	ND (2.1) F1	ND (2)
Butyl benzylphthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)
Caprolactam	5000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbazole	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Chrysene	5	ND (2)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2.1)	ND (2)
Dibenz(a,h)anthracene	0.3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F1	ND (1)
Dibenzofuran	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Diethyl phthalate	6000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-6A	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-77	MW-15	MW-15
Sample ID	Groundwater	MW6A-102016-0911	MW07-032515-1001	MW07-061115-1033	MW07-091615-1213	MW07-121715-1107	MW07-302116-1002	MW07-102016-1216	MW77-032615-0903	MW15-033115-0919	MW15-061215-1001
Lab Sample ID	Quality	460-122534-4	460-92212-9	460-96327-9	460-101215-12	460-106444-3	460-110804-11	460-122534-5	460-92288-9	460-92615-4	460-96394-5
Sample Date	Standard	10/20/2016	03/25/2015	06/11/2015	09/16/2015	12/17/2015	03/21/2016	10/20/2016	03/26/2015	03/31/2015	06/12/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.994**	**0.476**	**0.913**	**0.809**	**0.599**	**0.99**	**1.373**	**1.275**	**1.633**	**0.999**
Dissolved Oxygen, Field (mg/L)	-	**0.65**	**0.44**	**0.23**	**0.44**	**0.69**	**0.56**	**0.28**	**2.35**	**7.22**	**3.83**
ORP, Field (mV)	-	**-88.2**	**-43**	**-2.8**	**-108.7**	**-95.2**	**-317.6**	**-63.3**	**-0.04**	**246.3**	**217.1**
pH, Field (s.u)	-	**6.53**	**7.01**	**6.44**	**6.3**	**6.5**	**6.55**	**6.43**	**6.68**	**5.11**	**5.13**
Temperature (Deg C)	-	**14.48**	**7.93**	**16.7**	**19.6**	**11.7**	**10.07**	**17.83**	**14.78**	**9.44**	**16.6**
Turbidity, Field (NTU)	-	**12.4**	**7.49**	**21.1**	**23.2**	**999**	**10**	**56**	**999**	**1.86**	**30.4**
Dimethyl phthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)
Di-n-butylphthalate	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	**1 J**	ND (10)	ND (10) F1	ND (10)
Di-n-octyl phthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Fluoranthene	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	**0.79 J**	ND (10)	ND (10)	ND (10)
Fluorene	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) F1	ND (10)
Semi-Volatile Organic Compounds (ug/L) (con't)											
Hexachlorobenzene	0.02	ND (0.02)	ND (0.021)	ND (0.021)	ND (0.02)	ND (0.02)	ND (0.02) *	ND (0.02)	ND (0.02)	ND (0.021)	ND (0.02)
Hexachlorobutadiene	1	ND (1)	ND (1)	ND (1) *	ND (1) *	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)
Hexachlorocyclopentadiene	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Hexachloroethane	7	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Indeno(1,2,3-cd)pyrene	0.2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
Isophorone	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Naphthalene	300	ND (10)	ND (10)	ND (10)	ND (10)	**1.1 J**	**3.8 J**	ND (10)	ND (10)	ND (10)	ND (10)
Nitrobenzene	6	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)
N-Nitrosodi-n-propylamine	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
N-Nitrosodiphenylamine	10	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pentachlorophenol	0.3	ND (0.2)	ND (0.21)	ND (0.21)	ND (0.2)	ND (0.2)	ND (0.2) *	ND (0.2)	ND (0.2)	ND (0.21)	ND (0.2)
Phenanthrene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Phenol	2000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pyrene	200	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Volatile Organic Compounds (ug/L)											
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
1,1-Dichloroethane	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F1F2	ND (1)
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (0.02)	ND (1) F2	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (0.02)	ND (1) F2	ND (1)
1,2-Dichlorobenzene	600	**0.34 J**	ND (1)	**0.43 J**	**0.35 J**	**0.69 J**	**0.83 J**	**0.62 J**	ND (1)	ND (1) F2	ND (1)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F1F2	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
1,4-Dichlorobenzene	75	**3.6**	**0.77 J**	**2**	**2.7**	**2.5**	**3.4**	**2.8**	ND (1)	ND (1) F2	ND (1)
1,4-Dioxane	0.4	-	-	-	-	-	-	-	ND (2)	-	-
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) F2	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) F2	ND (5)
Acetone	6000	ND (5)	**25**	**13**	**33**	**130**	**10**	**38**	ND (5)	ND (5)	ND (5)
Benzene	1	**8.2** [A]	**0.92 J**	**5.5** [A]	**5.9** [A]	**3.9** [A]	**11** [A]	**17** [A]	ND (1)	ND (1) F1F2	ND (1)
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
Chlorobenzene	50	**89** [A]	**7.4**	**51** [A]	**47**	**49**	**120** [A]	**80** [A]	ND (1)	ND (1) F2	ND (1)
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-6A	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-77	MW-15	MW-15
Sample ID	Groundwater	MW6A-102016-0911	MW07-032515-1001	MW07-061115-1033	MW07-091615-1213	MW07-121715-1107	MW07-302116-1002	MW07-102016-1216	MW77-032615-0903	MW15-033115-0919	MW15-061215-1001
Lab Sample ID	Quality	460-122534-4	460-92212-9	460-96327-9	460-101215-12	460-106444-3	460-110804-11	460-122534-5	460-92288-9	460-92615-4	460-96394-5
Sample Date	Standard	10/20/2016	03/25/2015	06/11/2015	09/16/2015	12/17/2015	03/21/2016	10/20/2016	03/26/2015	03/31/2015	06/12/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.994**	**0.476**	**0.913**	**0.809**	**0.599**	**0.99**	**1.373**	**1.275**	**1.633**	**0.999**
Dissolved Oxygen, Field (mg/L)	-	**0.65**	**0.44**	**0.23**	**0.44**	**0.69**	**0.56**	**0.28**	**2.35**	**7.22**	**3.83**
ORP, Field (mV)	-	**-88.2**	**-43**	**-2.8**	**-108.7**	**-95.2**	**-317.6**	**-63.3**	**-0.04**	**246.3**	**217.1**
pH, Field (s.u)	-	**6.53**	**7.01**	**6.44**	**6.3**	**6.5**	**6.55**	**6.43**	**6.68**	**5.11**	**5.13**
Temperature (Deg C)	-	**14.48**	**7.93**	**16.7**	**19.6**	**11.7**	**10.07**	**17.83**	**14.78**	**9.44**	**16.6**
Turbidity, Field (NTU)	-	**12.4**	**7.49**	**21.1**	**23.2**	**999**	**10**	**56**	**999**	**1.86**	**30.4**
Chloroform (Trichloromethane)	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**1.6 F2**	**1.6**
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
cis-1,2-Dichloroethene	70	**2.7**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**10**	**0.85 JF1F2**	**0.87 J**
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F1F2	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	**0.57 J**	ND (1)	**0.31 J**	**2.3**	**0.81 J**	ND (1)	ND (1) F2	ND (1)
Isopropylbenzene	700	ND (1)	**0.35 J**	**1.5**	**1.6**	**1.9**	**2.6**	**6.1**	ND (1)	ND (1) F1F2	ND (1)
Volatile Organic Compounds (ug/L) (cont')											
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) *F2	ND (5)
Methyl cyclohexane	100	ND (1)	**1.3**	**1.8**	**1.1**	**1.4**	**1.5**	**0.96 J**	ND (1)	ND (1) F1F2	ND (1)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
Methylene chloride	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F1F2	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**1.3** [A]	**1.6** [A]
Toluene	600	ND (1)	ND (1)	**0.62 J**	**0.72 J**	**0.68 J**	**1**	**0.45 J**	ND (1)	ND (1) F1F2	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.3 J**	ND (1) F1F2	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
Trichloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.56 J**	**1.2 F2** [A]	**1**
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) F2	ND (1)
Vinyl chloride	1	**0.9 J**	ND (1)	ND (1) *	ND (1)	ND (1)	**0.19 J**	ND (1)	**1.5** [A]	ND (1) F2	ND (1)
Xylene (total)	1000	ND (2)	ND (2)	**0.54 J**	**0.45 J**	**1.9 J**	**4.8**	**1.6 J**	ND (2)	ND (2) F2	ND (2)

Notes:
1. ND: Result is not detected above the indicated reporting limit.
   J: Estimated value
   B: Possible blank contamination
   E: Exceeds calibration limits
   F1: MS and/or MSD recovery exceeds the control limits.
   * - Recovery Exceeds control limits
2. Results in red exceed the following criteria:
   - Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-15	MW-15	MW-15	MW-15	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A
Sample ID	Groundwater	MW15-091715-1028	MW15-121615-1047	MW15-032416-1030	MW15-101916-1126	MW15A-033115-1052	MW15A-061215-0858	1000-061215-0003	MW15A-091715-0918	MW15A-121615-1142	MW15A-032416-1116
Lab Sample ID	Quality	460-101286-11	460-106433-11	460-111067-8	460-122517-3	460-92615-5	460-96394-4	460-96394-3	460-101286-12	460-106433-12	460-111067-9
Sample Date	Standard	09/17/2015	12/16/2015	03/24/2016	10/19/2016	03/31/2015	06/12/2015	06/12/2015	09/17/2015	12/16/2015	03/24/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.901**	**1.033**	**1066**	**1.121**	**1.631**	**1.054**	-	**1.008**	**0.988**	**1156**
Dissolved Oxygen, Field (mg/L)	-	**1.06**	**2.55**	**4.03**	**1**	**0.78**	**0.41**	-	**0.32**	**0.36**	**0.33**
ORP, Field (mV)	-	**100.7**	**176.6**	**335.7**	**234.1**	**-98.1**	**-112.3**	-	**-71.4**	**-65.1**	**-101.1**
pH, Field (s.u)	-	**5.02**	**4.9**	**5.07**	**5**	**7.03**	**7.02**	-	**6.7**	**6.7**	**7.02**
Temperature (Deg C)	-	**19.3**	**13.2**	**11.21**	**18.37**	**8.46**	**16.7**	-	**17.1**	**13.1**	**11.85**
Turbidity, Field (NTU)	-	**26.9**	**20.9**	**1.93**	**2.84**	**351**	**210**	-	**97.8**	**80.6**	**173**
Inorganic Compounds - Total (ug/L)											
Cyanide	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	**4.2 JB**	ND (10)	ND (10) F1	ND (10)
Antimony, Total	6	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Arsenic, Total	3	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Barium, Total	6000	**322**	**433**	**475**	**470**	**726**	**903**	**921**	**737**	**708**	**854**
Beryllium, Total	1	**1.6** [A]	**1.8** [A]	**1.5** [A]	**1.9** [A]	ND (0.8)	**0.77 J**	**0.82**	ND (0.8)	ND (0.8)	**0.29 J**
Cadmium, Total	4	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Chromium, Total	70	**167** [A]	**126** [A]	**25**	**17.5**	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)
Chromium VI (Hexavalent), Total	NC	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	100	**1.5 J**	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)
Copper, Total	1300	**3 J**	**2.6 J**	ND (4)	**2.6 J**	**4**	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)
Lead, Total	5	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
Manganese, Total	50	**79.3** [A]	**32.2**	**24**	**112** [A]	**836** [A]	**980** [A]	**983** [A]	**891** [A]	**982** [A]	**823** [A]
Mercury, Total	2	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	**0.18 J**	ND (0.2)
Nickel, Total	100	**71.8**	**37.7**	**30.9**	**48.1**	**3.8 J**	**5.3**	**5.2**	**5.1**	**11.6**	**5.5**
Selenium, Total	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Silver, Total	40	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Zinc, Total	2000	**17.8**	**14.6 J**	**10.9 J**	**25.6**	ND (16)	**7.1 J**	**6.6 J**	ND (16)	ND (16)	ND (16)
Inorganic Compounds - Dissolved (ug/L)											
Antimony, Dissolved	6	-	-	-	-	-	-	-	-	-	-
Arsenic, Dissolved	3	-	-	-	-	-	-	-	-	-	-
Barium, Dissolved	6000	-	-	-	-	-	-	-	-	-	-
Beryllium, Dissolved	1	-	-	-	-	-	-	-	-	-	-
Cadmium, Dissolved	4	-	-	-	-	-	-	-	-	-	-
Chromium, Dissolved	70	-	-	-	-	-	-	-	-	-	-
Cobalt, Dissolved	100	-	-	-	-	-	-	-	-	-	-
Copper, Dissolved	1300	-	-	-	-	-	-	-	-	-	-
Lead, Dissolved	5	-	-	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-
Mercury, Dissolved	2	-	-	-	-	-	-	-	-	-	-
Nickel, Dissolved	100	-	-	-	-	-	-	-	-	-	-
Selenium, Dissolved	40	-	-	-	-	-	-	-	-	-	-
Silver, Dissolved	40	-	-	-	-	-	-	-	-	-	-
Zinc, Dissolved	2000	-	-	-	-	-	-	-	-	-	-
PCBs (ug/L)											
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-15	MW-15	MW-15	MW-15	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A
Sample ID	Groundwater	MW15-091715-1028	MW15-121615-1047	MW15-032416-1030	MW15-101916-1126	MW15A-033115-1052	MW15A-061215-0858	1000-061215-0003	MW15A-091715-0918	MW15A-121615-1142	MW15A-032416-1116
Lab Sample ID	Quality	460-101286-11	460-106433-11	460-111067-8	460-122517-3	460-92615-5	460-96394-4	460-96394-3	460-101286-12	460-106433-12	460-111067-9
Sample Date	Standard	09/17/2015	12/16/2015	03/24/2016	10/19/2016	03/31/2015	06/12/2015	06/12/2015	09/17/2015	12/16/2015	03/24/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.901**	**1.033**	**1066**	**1.121**	**1.631**	**1.054**	-	**1.008**	**0.988**	**1156**
Dissolved Oxygen, Field (mg/L)	-	**1.06**	**2.55**	**4.03**	**1**	**0.78**	**0.41**	-	**0.32**	**0.36**	**0.33**
ORP, Field (mV)	-	**100.7**	**176.6**	**335.7**	**234.1**	**-98.1**	**-112.3**	-	**-71.4**	**-65.1**	**-101.1**
pH, Field (s.u)	-	**5.02**	**4.9**	**5.07**	**5**	**7.03**	**7.02**	-	**6.7**	**6.7**	**7.02**
Temperature (Deg C)	-	**19.3**	**13.2**	**11.21**	**18.37**	**8.46**	**16.7**	-	**17.1**	**13.1**	**11.85**
Turbidity, Field (NTU)	-	**26.9**	**20.9**	**1.93**	**2.84**	**351**	**210**	-	**97.8**	**80.6**	**173**
Semi-Volatile Organic Compounds (ug/L)											
2,2'-oxybis(1-Chloropropane)	300	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *
2,4,5-Trichlorophenol	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4,6-Trichlorophenol	20	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dichlorophenol	20	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dimethylphenol	100	ND (10)	ND (10)	ND (10) *	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *
2,4-Dinitrophenol	40	ND (21)	ND (20)	ND (20)	ND (20)	ND (21)	ND (21)	ND (20)	ND (21)	ND (20)	ND (20)
2,4-Dinitrotoluene	10	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)	ND (2)	ND (2)
2,6-Dinitrotoluene	10	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)	ND (2)	ND (2)
2-Chloronaphthalene	600	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Chlorophenol	40	ND (10)	ND (10) *	ND (10) *	ND (10) *	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10) *
2-Methylnaphthalene	30	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *
2-Methylphenol	50	ND (10)	ND (10) *	ND (10) *	ND (10) *	ND (10) *	ND (10) *	ND (10) *	ND (10)	ND (10) *	ND (10) *
2-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Nitrophenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3,3'-Dichlorobenzidine	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4,6-Dinitro-2-methylphenol	1	ND (21)	ND (20)	ND (20)	ND (20)	ND (21)	ND (21)	ND (20)	ND (21)	ND (20)	ND (20)
4-Bromophenyl phenyl ether	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloro-3-methylphenol	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloroaniline	30	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chlorophenyl phenyl ether	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Methylphenol	50	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitroaniline	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitrophenol	100	ND (21)	ND (20)	ND (20)	ND (20)	ND (21)	ND (21)	ND (20)	ND (21)	ND (20)	ND (20)
Acenaphthene	400	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Acenaphthylene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Acetophenone	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Anthracene	2000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Atrazine	3	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2.1)	ND (2.1) *	ND (2) *	ND (2.1)	ND (2)	ND (2)
Benzaldehyde	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzo(a)anthracene	0.1	ND (0.052)	ND (0.05)	ND (0.05) *	ND (0.051)	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.052)	ND (0.05)	ND (0.05) *
Benzo(a)pyrene	0.1	ND (0.052)	ND (0.05)	ND (0.05)	ND (0.051)	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.052)	ND (0.05)	ND (0.05)
Benzo(b)fluoranthene	0.2	ND (0.052)	ND (0.05)	ND (0.05) *	ND (0.051)	ND (0.052)	ND (0.052)	ND (0.05)	**0.02 J**	ND (0.05)	ND (0.05) *
Benzo(g,h,i)perylene	100	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *
Benzo(k)fluoranthene	0.5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Biphenyl	400	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethoxy)methane	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethyl)ether	7	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
bis(2-Ethylhexyl)phthalate	3	**7.8 B** [A]	ND (2)	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2)	**7.2 B** [A]	ND (2)	ND (2)
Butyl benzylphthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Caprolactam	5000	ND (10)	ND (10) *	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)
Carbazole	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Chrysene	5	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2.1)	ND (2.1)	ND (2)	ND (2.1)	ND (2)	ND (2)
Dibenz(a,h)anthracene	0.3	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *
Dibenzofuran	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Diethyl phthalate	6000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-15	MW-15	MW-15	MW-15	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A
Sample ID	Groundwater	MW15-091715-1028	MW15-121615-1047	MW15-032416-1030	MW15-101916-1126	MW15A-033115-1052	MW15A-061215-0858	1000-061215-0003	MW15A-091715-0918	MW15A-121615-1142	MW15A-032416-1116
Lab Sample ID	Quality	460-101286-11	460-106433-11	460-111067-8	460-122517-3	460-92615-5	460-96394-4	460-96394-3	460-101286-12	460-106433-12	460-111067-9
Sample Date	Standard	09/17/2015	12/16/2015	03/24/2016	10/19/2016	03/31/2015	06/12/2015	06/12/2015	09/17/2015	12/16/2015	03/24/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.901**	**1.033**	**1066**	**1.121**	**1.631**	**1.054**	-	**1.008**	**0.988**	**1156**
Dissolved Oxygen, Field (mg/L)	-	**1.06**	**2.55**	**4.03**	**1**	**0.78**	**0.41**	-	**0.32**	**0.36**	**0.33**
ORP, Field (mV)	-	**100.7**	**176.6**	**335.7**	**234.1**	**-98.1**	**-112.3**	-	**-71.4**	**-65.1**	**-101.1**
pH, Field (s.u)	-	**5.02**	**4.9**	**5.07**	**5**	**7.03**	**7.02**	-	**6.7**	**6.7**	**7.02**
Temperature (Deg C)	-	**19.3**	**13.2**	**11.21**	**18.37**	**8.46**	**16.7**	-	**17.1**	**13.1**	**11.85**
Turbidity, Field (NTU)	-	**26.9**	**20.9**	**1.93**	**2.84**	**351**	**210**	-	**97.8**	**80.6**	**173**
Dimethyl phthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Di-n-butylphthalate	700	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Di-n-octyl phthalate	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Fluoranthene	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Fluorene	300	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Semi-Volatile Organic Compounds (ug/L) (con't)											
Hexachlorobenzene	0.02	ND (0.021)	ND (0.02) *	ND (0.02) *	ND (0.02)	ND (0.021)	ND (0.021)	ND (0.02)	ND (0.021)	ND (0.02) *	ND (0.02) *
Hexachlorobutadiene	1	ND (1) *	ND (1) *	ND (1) *	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1) *	ND (1) *	ND (1) *
Hexachlorocyclopentadiene	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Hexachloroethane	7	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Indeno(1,2,3-cd)pyrene	0.2	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *
Isophorone	40	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Naphthalene	300	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *
Nitrobenzene	6	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
N-Nitrosodi-n-propylamine	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
N-Nitrosodiphenylamine	10	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pentachlorophenol	0.3	ND (0.21)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.21)	ND (0.21)	ND (0.2)	ND (0.21)	ND (0.2)	ND (0.2)
Phenanthrene	100	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Phenol	2000	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pyrene	200	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Volatile Organic Compounds (ug/L)											
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	**0.16 J**	**0.18 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.3 J**	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02) *	ND (0.02)	ND (0.02)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,4-Dichlorobenzene	75	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.42 J**	ND (1)
1,4-Dioxane	0.4	-	-	-	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (0.4)	ND (0.4)
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	ND (5)	**46**	ND (5)	ND (5)	ND (5)	**18**	**23**	**22**	**32**	ND (5)
Benzene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.25 J**	ND (1)
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-15	MW-15	MW-15	MW-15	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A
Sample ID	Groundwater	MW15-091715-1028	MW15-121615-1047	MW15-032416-1030	MW15-101916-1126	MW15A-033115-1052	MW15A-061215-0858	1000-061215-0003	MW15A-091715-0918	MW15A-121615-1142	MW15A-032416-1116
Lab Sample ID	Quality	460-101286-11	460-106433-11	460-111067-8	460-122517-3	460-92615-5	460-96394-4	460-96394-3	460-101286-12	460-106433-12	460-111067-9
Sample Date	Standard	09/17/2015	12/16/2015	03/24/2016	10/19/2016	03/31/2015	06/12/2015	06/12/2015	09/17/2015	12/16/2015	03/24/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.901**	**1.033**	**1066**	**1.121**	**1.631**	**1.054**	-	**1.008**	**0.988**	**1156**
Dissolved Oxygen, Field (mg/L)	-	**1.06**	**2.55**	**4.03**	**1**	**0.78**	**0.41**	-	**0.32**	**0.36**	**0.33**
ORP, Field (mV)	-	**100.7**	**176.6**	**335.7**	**234.1**	**-98.1**	**-112.3**	-	**-71.4**	**-65.1**	**-101.1**
pH, Field (s.u)	-	**5.02**	**4.9**	**5.07**	**5**	**7.03**	**7.02**	-	**6.7**	**6.7**	**7.02**
Temperature (Deg C)	-	**19.3**	**13.2**	**11.21**	**18.37**	**8.46**	**16.7**	-	**17.1**	**13.1**	**11.85**
Turbidity, Field (NTU)	-	**26.9**	**20.9**	**1.93**	**2.84**	**351**	**210**	-	**97.8**	**80.6**	**173**
Chloroform (Trichloromethane)	70	**1.1**	**1.9**	**1.1**	**1.1**	ND (1)	ND (1)	ND (1)	ND (1)	**0.41 J**	ND (1)
Chloromethane (Methyl Chloride)	100	**0.91 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.31 J**	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	**0.88 J**	**1.2**	**0.77 J**	**0.73 J**	ND (1)	**0.51 J**	**0.49 J**	**1**	**0.82 J**	**0.28 J**
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isopropylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Volatile Organic Compounds (ug/L) (cont')											
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) *	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methyl cyclohexane	100	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Methylene chloride	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	**1.6** [A]	**1.6** [A]	**1.2** [A]	**1.5** [A]	ND (1)	**0.2 J**	**0.18 J**	ND (1)	**0.49 J**	**0.26 J**
Toluene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	**1.4** [A]	**2** [A]	**1**	**1.5** [A]	**0.64 J**	**0.61 J**	**0.71 J**	**0.78 J**	**0.86 J**	**0.44 J**
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)
Vinyl chloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.25 J**	**0.38 J**	**0.68 J**	**1.1** [A]	**0.21 J**
Xylene (total)	1000	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)

Notes:
1. ND: Result is not detected above the indicated reporting limit.
   J: Estimated value
   B: Possible blank contamination
   E: Exceeds calibration limits
   F1: MS and/or MSD recovery exceeds the control limits.
   * - Recovery Exceeds control limits
2. Results in red exceed the following criteria:
   - Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-15A	MW-21A	MW-25	MW-35	MW-35	MW-35	MW-35	MW-35	MW-35	MW-35A
Sample ID	Groundwater	MW15A-101916-1231	MW21A-101916-1242	MW25-101916-1147	MW35-033115-1152	MW35-061215-1137	MW35-091715-1223	MW35-121615-1242	MW35-032416-1311	MW35-101916-0906	MW35A-033115-1247
Lab Sample ID	Quality	460-122517-4	460-122517-7	460-122517-8	460-92615-6	460-96394-7	460-101286-10	460-106433-13	460-111067-10	460-122517-5	460-92615-7
Sample Date	Standard	10/19/2016	10/19/2016	10/19/2016	03/31/2015	06/12/2015	09/17/2015	12/16/2015	03/24/2016	10/19/2016	03/31/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**1.117**	**0.771**	**1.097**	**1.309**	**0.412**	**0.557**	**0.482**	**503**	**0.508**	**1.275**
Dissolved Oxygen, Field (mg/L)	-	**0.15**	**0.17**	**1.89**	**3.5**	**0.41**	**1.07**	**1.59**	**1.35**	**1.49**	**0.95**
ORP, Field (mV)	-	**-126.1**	**-66.9**	**147.2**	**177.9**	**75.9**	**95.8**	**106.9**	**251.3**	**207**	**-127**
pH, Field (s.u)	-	**6.74**	**6.17**	**3.89**	**5.88**	**6.34**	**5.28**	**5.74**	**5.39**	**5.41**	**7.22**
Temperature (Deg C)	-	**19.91**	**17.73**	**20.07**	**8.22**	**20.2**	**22.1**	**11.8**	**10.47**	**18.28**	**9.39**
Turbidity, Field (NTU)	-	**118**	**9.53**	**6.62**	**6.01**	**22.1**	**14.3**	**13.7**	**1.36**	**38.1**	**58.6**
Inorganic Compounds - Total (ug/L)											
Cyanide	100	ND (10)	-	-	ND (10)	**5.6 JB**	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Antimony, Total	6	ND (2)	-	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Arsenic, Total	3	ND (2)	-	-	ND (2)	**1.1 J**	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Barium, Total	6000	**750**	-	-	**340**	**284**	**528**	**317**	**444**	**527**	**251**
Beryllium, Total	1	ND (0.8)	-	-	ND (0.8)	**0.31 J**	**0.54 J**	ND (0.8)	**0.36 J**	**0.58 J**	ND (0.8)
Cadmium, Total	4	ND (2)	-	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Chromium, Total	70	ND (4)	-	-	**2.1 J**	**6.5**	**4.2**	**3 J**	**3.3 J**	**3.9 J**	ND (4)
Chromium VI (Hexavalent), Total	NC	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	100	ND (4)	-	-	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)
Copper, Total	1300	ND (4)	-	-	**3.2 J**	**8.2**	**1.6 J**	**2.7 J**	ND (4)	**1.5 J**	**2.5 J**
Lead, Total	5	ND (1.2)	-	-	ND (1.2)	**0.66 J**	ND (1.2)	ND (1.2)	ND (1.2)	**0.45 J**	ND (1.2)
Manganese, Total	50	**984** [A]	-	-	**12.9**	**179** [A]	**78.1** [A]	**32.3**	**78.5** [A]	**120** [A]	**1020** [A]
Mercury, Total	2	ND (0.2)	-	-	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
Nickel, Total	100	**4.2**	-	-	**4.2**	**10.8**	**19.3**	**7.8**	**15.8**	**18.2**	**9.8**
Selenium, Total	40	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Silver, Total	40	ND (2)	-	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Zinc, Total	2000	ND (16)	-	-	**9.4 J**	**22.2**	**18.7**	**9.6 J**	**11.6 J**	**20.4**	ND (16)
Inorganic Compounds - Dissolved (ug/L)											
Antimony, Dissolved	6	-	-	-	-	-	-	-	-	-	-
Arsenic, Dissolved	3	-	-	-	-	-	-	-	-	-	-
Barium, Dissolved	6000	-	-	-	-	-	-	-	-	-	-
Beryllium, Dissolved	1	-	-	-	-	-	-	-	-	-	-
Cadmium, Dissolved	4	-	-	-	-	-	-	-	-	-	-
Chromium, Dissolved	70	-	-	-	-	-	-	-	-	-	-
Cobalt, Dissolved	100	-	-	-	-	-	-	-	-	-	-
Copper, Dissolved	1300	-	-	-	-	-	-	-	-	-	-
Lead, Dissolved	5	-	-	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-
Mercury, Dissolved	2	-	-	-	-	-	-	-	-	-	-
Nickel, Dissolved	100	-	-	-	-	-	-	-	-	-	-
Selenium, Dissolved	40	-	-	-	-	-	-	-	-	-	-
Silver, Dissolved	40	-	-	-	-	-	-	-	-	-	-
Zinc, Dissolved	2000	-	-	-	-	-	-	-	-	-	-
PCBs (ug/L)											
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-15A	MW-21A	MW-25	MW-35	MW-35	MW-35	MW-35	MW-35	MW-35	MW-35A
Sample ID	Groundwater	MW15A-101916-1231	MW21A-101916-1242	MW25-101916-1147	MW35-033115-1152	MW35-061215-1137	MW35-091715-1223	MW35-121615-1242	MW35-032416-1311	MW35-101916-0906	MW35A-033115-1247
Lab Sample ID	Quality	460-122517-4	460-122517-7	460-122517-8	460-92615-6	460-96394-7	460-101286-10	460-106433-13	460-111067-10	460-122517-5	460-92615-7
Sample Date	Standard	10/19/2016	10/19/2016	10/19/2016	03/31/2015	06/12/2015	09/17/2015	12/16/2015	03/24/2016	10/19/2016	03/31/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**1.117**	**0.771**	**1.097**	**1.309**	**0.412**	**0.557**	**0.482**	**503**	**0.508**	**1.275**
Dissolved Oxygen, Field (mg/L)	-	**0.15**	**0.17**	**1.89**	**3.5**	**0.41**	**1.07**	**1.59**	**1.35**	**1.49**	**0.95**
ORP, Field (mV)	-	**-126.1**	**-66.9**	**147.2**	**177.9**	**75.9**	**95.8**	**106.9**	**251.3**	**207**	**-127**
pH, Field (s.u)	-	**6.74**	**6.17**	**3.89**	**5.88**	**6.34**	**5.28**	**5.74**	**5.39**	**5.41**	**7.22**
Temperature (Deg C)	-	**19.91**	**17.73**	**20.07**	**8.22**	**20.2**	**22.1**	**11.8**	**10.47**	**18.28**	**9.39**
Turbidity, Field (NTU)	-	**118**	**9.53**	**6.62**	**6.01**	**22.1**	**14.3**	**13.7**	**1.36**	**38.1**	**58.6**
Semi-Volatile Organic Compounds (ug/L)											
2,2'-oxybis(1-Chloropropane)	300	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)
2,4,5-Trichlorophenol	700	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4,6-Trichlorophenol	20	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dichlorophenol	20	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2,4-Dimethylphenol	100	ND (10) *	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10) *	ND (10)
2,4-Dinitrophenol	40	ND (21)	-	-	ND (21)	ND (21)	ND (21)	ND (20)	ND (20)	ND (20)	ND (21)
2,4-Dinitrotoluene	10	ND (2.1)	-	-	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2.1)
2,6-Dinitrotoluene	10	ND (2.1)	-	-	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2.1)
2-Chloronaphthalene	600	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Chlorophenol	40	ND (10) *	-	-	ND (10) *	ND (10)	ND (10)	ND (10) *	ND (10) *	ND (10) *	ND (10) *
2-Methylnaphthalene	30	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)
2-Methylphenol	50	ND (10) *	-	-	ND (10) *	ND (10) *	ND (10)	ND (10) *	ND (10) *	ND (10) *	ND (10) *
2-Nitroaniline	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
2-Nitrophenol	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3,3'-Dichlorobenzidine	30	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3-Nitroaniline	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4,6-Dinitro-2-methylphenol	1	ND (21)	-	-	ND (21)	ND (21)	ND (21)	ND (20)	ND (20)	ND (20)	ND (21)
4-Bromophenyl phenyl ether	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloro-3-methylphenol	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chloroaniline	30	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Chlorophenyl phenyl ether	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Methylphenol	50	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitroaniline	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Nitrophenol	100	ND (21)	-	-	ND (21)	ND (21)	ND (21)	ND (20)	ND (20)	ND (20)	ND (21)
Acenaphthene	400	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Acenaphthylene	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Acetophenone	700	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Anthracene	2000	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Atrazine	3	ND (2.1)	-	-	ND (2.1)	ND (2.1) *	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2.1)
Benzaldehyde	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzo(a)anthracene	0.1	ND (0.052)	-	-	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.05) *	ND (0.051)	ND (0.052)
Benzo(a)pyrene	0.1	ND (0.052)	-	-	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.05)	ND (0.051)	ND (0.052)
Benzo(b)fluoranthene	0.2	ND (0.052)	-	-	ND (0.052)	ND (0.052)	ND (0.052)	ND (0.05)	ND (0.05) *	ND (0.051)	ND (0.052)
Benzo(g,h,i)perylene	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)
Benzo(k)fluoranthene	0.5	ND (1)	-	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Biphenyl	400	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethoxy)methane	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
bis(2-Chloroethyl)ether	7	ND (1) *	-	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)
bis(2-Ethylhexyl)phthalate	3	ND (2.1)	-	-	ND (2.1)	ND (2.1)	**7.9 B** [A]	ND (2)	ND (2)	ND (2)	ND (2.1)
Butyl benzylphthalate	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Caprolactam	5000	ND (10) *	-	-	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10) *	ND (10)
Carbazole	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Chrysene	5	ND (2.1)	-	-	ND (2.1)	ND (2.1)	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2.1)
Dibenz(a,h)anthracene	0.3	ND (1)	-	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)
Dibenzofuran	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Diethyl phthalate	6000	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-15A	MW-21A	MW-25	MW-35	MW-35	MW-35	MW-35	MW-35	MW-35	MW-35A
Sample ID	Groundwater	MW15A-101916-1231	MW21A-101916-1242	MW25-101916-1147	MW35-033115-1152	MW35-061215-1137	MW35-091715-1223	MW35-121615-1242	MW35-032416-1311	MW35-101916-0906	MW35A-033115-1247
Lab Sample ID	Quality	460-122517-4	460-122517-7	460-122517-8	460-92615-6	460-96394-7	460-101286-10	460-106433-13	460-111067-10	460-122517-5	460-92615-7
Sample Date	Standard	10/19/2016	10/19/2016	10/19/2016	03/31/2015	06/12/2015	09/17/2015	12/16/2015	03/24/2016	10/19/2016	03/31/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**1.117**	**0.771**	**1.097**	**1.309**	**0.412**	**0.557**	**0.482**	**503**	**0.508**	**1.275**
Dissolved Oxygen, Field (mg/L)	-	**0.15**	**0.17**	**1.89**	**3.5**	**0.41**	**1.07**	**1.59**	**1.35**	**1.49**	**0.95**
ORP, Field (mV)	-	**-126.1**	**-66.9**	**147.2**	**177.9**	**75.9**	**95.8**	**106.9**	**251.3**	**207**	**-127**
pH, Field (s.u)	-	**6.74**	**6.17**	**3.89**	**5.88**	**6.34**	**5.28**	**5.74**	**5.39**	**5.41**	**7.22**
Temperature (Deg C)	-	**19.91**	**17.73**	**20.07**	**8.22**	**20.2**	**22.1**	**11.8**	**10.47**	**18.28**	**9.39**
Turbidity, Field (NTU)	-	**118**	**9.53**	**6.62**	**6.01**	**22.1**	**14.3**	**13.7**	**1.36**	**38.1**	**58.6**
Dimethyl phthalate	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Di-n-butylphthalate	700	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Di-n-octyl phthalate	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Fluoranthene	300	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Fluorene	300	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Semi-Volatile Organic Compounds (ug/L) (con't)											
Hexachlorobenzene	0.02	ND (0.021)	-	-	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.02) *	ND (0.02) *	ND (0.02)	ND (0.021)
Hexachlorobutadiene	1	ND (1)	-	-	ND (1) *	ND (1)	ND (1) *	ND (1) *	ND (1) *	ND (1)	ND (1) *
Hexachlorocyclopentadiene	40	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Hexachloroethane	7	ND (1)	-	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Indeno(1,2,3-cd)pyrene	0.2	ND (1)	-	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)
Isophorone	40	ND (10) *	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)
Naphthalene	300	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)
Nitrobenzene	6	ND (1)	-	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
N-Nitrosodi-n-propylamine	10	ND (1)	-	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
N-Nitrosodiphenylamine	10	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pentachlorophenol	0.3	ND (0.21)	-	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.21)
Phenanthrene	100	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Phenol	2000	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Pyrene	200	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Volatile Organic Compounds (ug/L)											
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2,4-Trichlorobenzene	9	**0.3 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.35 J**
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (0.02)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (0.02)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
1,3-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.54 J**
1,4-Dichlorobenzene	75	**0.49 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**1.3**
1,4-Dioxane	0.4	**29** [A]	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	6000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	**18**	ND (5)	ND (5)	ND (5)
Benzene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chlorobenzene	50	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.73 J**
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

		MW-15A	MW-21A	MW-25	MW-35	MW-35	MW-35	MW-35	MW-35	MW-35	MW-35A
Sample ID	Groundwater	MW15A-101916-1231	MW21A-101916-1242	MW25-101916-1147	MW35-033115-1152	MW35-061215-1137	MW35-091715-1223	MW35-121615-1242	MW35-032416-1311	MW35-101916-0906	MW35A-033115-1247
Lab Sample ID	Quality	460-122517-4	460-122517-7	460-122517-8	460-92615-6	460-96394-7	460-101286-10	460-106433-13	460-111067-10	460-122517-5	460-92615-7
Sample Date	Standard	10/19/2016	10/19/2016	10/19/2016	03/31/2015	06/12/2015	09/17/2015	12/16/2015	03/24/2016	10/19/2016	03/31/2015
Field Parameters											
Conductivity, Field (mS/cm)	-	**1.117**	**0.771**	**1.097**	**1.309**	**0.412**	**0.557**	**0.482**	**503**	**0.508**	**1.275**
Dissolved Oxygen, Field (mg/L)	-	**0.15**	**0.17**	**1.89**	**3.5**	**0.41**	**1.07**	**1.59**	**1.35**	**1.49**	**0.95**
ORP, Field (mV)	-	**-126.1**	**-66.9**	**147.2**	**177.9**	**75.9**	**95.8**	**106.9**	**251.3**	**207**	**-127**
pH, Field (s.u)	-	**6.74**	**6.17**	**3.89**	**5.88**	**6.34**	**5.28**	**5.74**	**5.39**	**5.41**	**7.22**
Temperature (Deg C)	-	**19.91**	**17.73**	**20.07**	**8.22**	**20.2**	**22.1**	**11.8**	**10.47**	**18.28**	**9.39**
Turbidity, Field (NTU)	-	**118**	**9.53**	**6.62**	**6.01**	**22.1**	**14.3**	**13.7**	**1.36**	**38.1**	**58.6**
Chloroform (Trichloromethane)	70	ND (1)	**1.8**	**1.1**	**1.8**	**1.4**	**2.4**	**1**	**1.7**	**1.5**	**0.32 J**
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.42 J**	ND (1)	ND (1)	ND (1)	ND (1)
cis-1,2-Dichloroethene	70	**1.6**	**27**	**0.72 J**	**20**	**13**	**19**	**5**	**17**	**10**	**2.3**
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Isopropylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Volatile Organic Compounds (ug/L) (cont')											
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5) *	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) *
Methyl cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)
Methyl Tert Butyl Ether	70	ND (1)	ND (1)	ND (1)	**0.13 J**	ND (1)	**0.13 J**	ND (1)	ND (1)	ND (1)	**0.24 J**
Methylene chloride	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Tetrachloroethene	1	**0.64 J**	**0.99 J**	1.2 [A]	ND (1)	**0.65 J**	1.1 [A]	**0.54 J**	**0.7 J**	**0.73 J**	ND (1)
Toluene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	**0.49 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trichloroethene	1	1.8 [A]	2.5 [A]	1.6 [A]	5.9 [A]	4.6 [A]	6.8 [A]	2.7 [A]	5.3 [A]	3.8 [A]	**0.65 J**
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)
Vinyl chloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	2.6 [A]
Xylene (total)	1000	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)

Notes:
1. ND: Result is not detected above the indicated reporting limit.
   J: Estimated value
   B: Possible blank contamination
   E: Exceeds calibration limits
   F1: MS and/or MSD recovery exceeds the control limits.
   * - Recovery Exceeds control limits
2. Results in red exceed the following criteria:
   - Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-35A	MW-35A	MW-35A	MW-35A	MW-35A	MW-77	MW-77	MW-77	MW-77	MW-77
Sample ID	Groundwater	MW35A-061215-1052	MW35A-091715-1128	MW35A-121615-1347	MW35A-032416-1222	MW35A-101916-1006	MW77-061515-1027	MW77-091615-1141	MW77-121715-1007	MW77-020516-1221	MW77-032316-1031
Lab Sample ID	Quality	460-96394-6	460-101286-9	460-106433-14	460-111067-11	460-122517-6	460-96461-9	460-101215-5	460-106444-9	460-108647-1	460-110896-6
Sample Date	Standard	06/12/2015	09/17/2015	12/16/2015	03/24/2016	10/19/2016	06/15/2015	09/16/2015	12/17/2015	02/05/2016	03/23/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.74**	**0.708**	**0.726**	**709**	**0.603**	**0.557**	**0.694**	**0.701**	-	**0.682**
Dissolved Oxygen, Field (mg/L)	-	**0.27**	**0.11**	**0.03**	**0.23**	**0.46**	**0.37**	**0.42**	**0.44**	-	**0.13**
ORP, Field (mV)	-	**-120.9**	**-126.8**	**-146.4**	**-150.7**	**-74.2**	**-12.4**	**-69.1**	**-36.9**	-	**32.6**
pH, Field (s.u)	-	**6.95**	**6.98**	**7.09**	**7.17**	**6.61**	**6.3**	**6.67**	**6.79**	-	**6.69**
Temperature (Deg C)	-	**16.8**	**16.7**	**12.7**	**12.17**	**15.89**	**20.8**	**22.7**	**14.8**	-	**15.96**
Turbidity, Field (NTU)	-	**35.1**	**170**	**999**	**83**	**129**	**63.8**	**117**	**154**	-	**3.64**
Inorganic Compounds - Total (ug/L)											
Cyanide	100	**4 JB**	ND (10)	ND (10)	ND (10)	ND (10)	**5.4 JB**	ND (10)	ND (10)	-	ND (10)
Antimony, Total	6	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	**2.2**	**2.4**	**7.1** [A]	-	**3.4**
Arsenic, Total	3	ND (2)	ND (2)	**0.94 J**	ND (2)	**0.8 J**	**5.3** [A]	**6.4** [A]	**29.1** [A]	-	**3.4** [A]
Barium, Total	6000	**315**	**271**	**394**	**268**	**214**	**122**	**234**	**1870**	-	**66.1**
Beryllium, Total	1	ND (0.8)	ND (0.8)	**0.38 J**	ND (0.8)	**0.27 J**	**0.48 J**	**0.65 J**	**5.3** [A]	-	ND (0.8)
Cadmium, Total	4	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	**2.9**	-	ND (2)
Chromium, Total	70	ND (4)	**2.2 J**	**4.5**	ND (4)	**41.8**	**96.1** [A]	**178** [A]	**1780** [A]	ND (4)	**1.5 J**
Chromium VI (Hexavalent), Total	NC	-	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Cobalt, Total	100	ND (4)	**1.5 J**	**6.5**	ND (4)	**3 J**	**5.2**	**7.2**	**52.3**	-	**2.7 J**
Copper, Total	1300	ND (4)	**1.9 J**	**2.4 J**	ND (4)	**4.1**	**45**	**80.4**	**622**	-	**4**
Lead, Total	5	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	**24** [A]	**47.2** [A]	**427** [A]	-	ND (1.2)
Manganese, Total	50	**996** [A]	**939** [A]	**1100** [A]	**946** [A]	**517** [A]	**1640** [A]	**1640** [A]	**4590** [A]	-	**3350** [A]
Mercury, Total	2	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	**0.15 J**	-	ND (0.2)
Nickel, Total	100	**1.7 J**	**12.4**	**42.6**	**5.7**	**38.7**	**147** [A]	**178** [A]	**1080** [A]	-	**68.8**
Selenium, Total	40	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	**1.4 J**	-	ND (10)
Silver, Total	40	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	-	ND (2)
Zinc, Total	2000	ND (16)	ND (16)	**9.6 J**	ND (16)	**11.5 J**	**446**	**733**	**6250** [A]	-	**56.1**
Inorganic Compounds - Dissolved (ug/L)											
Antimony, Dissolved	6	-	-	-	-	-	-	-	-	-	-
Arsenic, Dissolved	3	-	-	-	-	-	-	-	-	-	-
Barium, Dissolved	6000	-	-	-	-	-	-	-	-	-	-
Beryllium, Dissolved	1	-	-	-	-	-	-	-	-	-	-
Cadmium, Dissolved	4	-	-	-	-	-	-	-	-	-	-
Chromium, Dissolved	70	-	-	-	-	-	-	-	-	-	-
Cobalt, Dissolved	100	-	-	-	-	-	-	-	-	-	-
Copper, Dissolved	1300	-	-	-	-	-	-	-	-	-	-
Lead, Dissolved	5	-	-	-	-	-	-	-	-	-	-
Manganese, Dissolved	50	-	-	-	-	-	-	-	-	-	-
Mercury, Dissolved	2	-	-	-	-	-	-	-	-	-	-
Nickel, Dissolved	100	-	-	-	-	-	-	-	-	-	-
Selenium, Dissolved	40	-	-	-	-	-	-	-	-	-	-
Silver, Dissolved	40	-	-	-	-	-	-	-	-	-	-
Zinc, Dissolved	2000	-	-	-	-	-	-	-	-	-	-
PCBs (ug/L)											
Aroclor-1016 (PCB-1016)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	0.5	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	0.5	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	0.5	-	-	-	-	-	-	-	-	-	-

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-35A	MW-35A	MW-35A	MW-35A	MW-35A	MW-77	MW-77	MW-77	MW-77	MW-77
Sample ID	Groundwater	MW35A-061215-1052	MW35A-091715-1128	MW35A-121615-1347	MW35A-032416-1222	MW35A-101916-1006	MW77-061515-1027	MW77-091615-1141	MW77-121715-1007	MW77-020516-1221	MW77-032316-1031
Lab Sample ID	Quality	460-96394-6	460-101286-9	460-106433-14	460-111067-11	460-122517-6	460-96461-9	460-101215-5	460-106444-9	460-108647-1	460-110896-6
Sample Date	Standard	06/12/2015	09/17/2015	12/16/2015	03/24/2016	10/19/2016	06/15/2015	09/16/2015	12/17/2015	02/05/2016	03/23/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.74**	**0.708**	**0.726**	**709**	**0.603**	**0.557**	**0.694**	**0.701**	-	**0.682**
Dissolved Oxygen, Field (mg/L)	-	**0.27**	**0.11**	**0.03**	**0.23**	**0.46**	**0.37**	**0.42**	**0.44**	-	**0.13**
ORP, Field (mV)	-	**-120.9**	**-126.8**	**-146.4**	**-150.7**	**-74.2**	**-12.4**	**-69.1**	**-36.9**	-	**32.6**
pH, Field (s.u)	-	**6.95**	**6.98**	**7.09**	**7.17**	**6.61**	**6.3**	**6.67**	**6.79**	-	**6.69**
Temperature (Deg C)	-	**16.8**	**16.7**	**12.7**	**12.17**	**15.89**	**20.8**	**22.7**	**14.8**	-	**15.96**
Turbidity, Field (NTU)	-	**35.1**	**170**	**999**	**83**	**129**	**63.8**	**117**	**154**	-	**3.64**
Semi-Volatile Organic Compounds (ug/L)											
2,2'-oxybis(1-Chloropropane)	300	ND (11)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10) *	ND (10)	-	ND (10)
2,4,5-Trichlorophenol	700	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
2,4,6-Trichlorophenol	20	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
2,4-Dichlorophenol	20	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
2,4-Dimethylphenol	100	ND (11)	ND (10)	ND (10)	ND (10) *	ND (10) *	ND (10)	ND (10)	ND (10)	-	ND (10)
2,4-Dinitrophenol	40	ND (22)	ND (21)	ND (20)	ND (20)	ND (20)	ND (20)	ND (21)	ND (20)	-	ND (21)
2,4-Dinitrotoluene	10	ND (2.2)	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2.1)	ND (2)	-	ND (2.1)
2,6-Dinitrotoluene	10	ND (2.2)	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2.1)	ND (2)	-	ND (2.1)
2-Chloronaphthalene	600	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
2-Chlorophenol	40	ND (11)	ND (10)	ND (10) *	ND (10) *	ND (10) *	ND (10)	ND (10)	ND (10)	-	ND (10) *
2-Methylnaphthalene	30	ND (11)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
2-Methylphenol	50	ND (11) *	ND (10)	ND (10) *	ND (10) *	ND (10) *	ND (10) *	ND (10)	ND (10) *	-	ND (10) *
2-Nitroaniline	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
2-Nitrophenol	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
3,3'-Dichlorobenzidine	30	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
3-Nitroaniline	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
4,6-Dinitro-2-methylphenol	1	ND (22)	ND (21)	ND (20)	ND (20)	ND (20)	ND (20)	ND (21)	ND (20)	-	ND (21)
4-Bromophenyl phenyl ether	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
4-Chloro-3-methylphenol	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
4-Chloroaniline	30	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
4-Chlorophenyl phenyl ether	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
4-Methylphenol	50	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
4-Nitroaniline	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
4-Nitrophenol	100	ND (22)	ND (21)	ND (20)	ND (20)	ND (20)	ND (20)	ND (21)	ND (20)	-	ND (21)
Acenaphthene	400	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Acenaphthylene	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Acetophenone	700	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Anthracene	2000	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Atrazine	3	ND (2.2) *	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2) *	ND (2.1) *	ND (2)	-	ND (2.1)
Benzaldehyde	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Benzo(a)anthracene	0.1	ND (0.054)	ND (0.052)	ND (0.05)	ND (0.05) *	ND (0.05)	ND (0.05)	ND (0.052)	ND (0.05)	-	ND (0.052)
Benzo(a)pyrene	0.1	ND (0.054)	ND (0.052)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.052)	**0.036 J**	-	ND (0.052)
Benzo(b)fluoranthene	0.2	ND (0.054)	ND (0.052)	ND (0.05)	ND (0.05) *	ND (0.05)	ND (0.05)	ND (0.052)	**0.054 ***	-	ND (0.052)
Benzo(g,h,i)perylene	100	ND (11)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Benzo(k)fluoranthene	0.5	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Biphenyl	400	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
bis(2-Chloroethoxy)methane	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
bis(2-Chloroethyl)ether	7	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	-	ND (1)
bis(2-Ethylhexyl)phthalate	3	ND (2.2)	**8.3 B** [A]	ND (2)	ND (2)	ND (2)	ND (2)	**11 B*** [A]	ND (2) *	-	ND (2.1)
Butyl benzylphthalate	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Caprolactam	5000	ND (11)	ND (10)	ND (10) *	ND (10)	ND (10) *	ND (10) *	ND (10)	ND (10)	-	ND (10) *
Carbazole	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Chrysene	5	ND (2.2)	ND (2.1)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2.1)	ND (2)	-	ND (2.1)
Dibenz(a,h)anthracene	0.3	ND (1.1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Dibenzofuran	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Diethyl phthalate	6000	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)

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POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-35A	MW-35A	MW-35A	MW-35A	MW-35A	MW-77	MW-77	MW-77	MW-77	MW-77
Sample ID	Groundwater	MW35A-061215-1052	MW35A-091715-1128	MW35A-121615-1347	MW35A-032416-1222	MW35A-101916-1006	MW77-061515-1027	MW77-091615-1141	MW77-121715-1007	MW77-020516-1221	MW77-032316-1031
Lab Sample ID	Quality	460-96394-6	460-101286-9	460-106433-14	460-111067-11	460-122517-6	460-96461-9	460-101215-5	460-106444-9	460-108647-1	460-110896-6
Sample Date	Standard	06/12/2015	09/17/2015	12/16/2015	03/24/2016	10/19/2016	06/15/2015	09/16/2015	12/17/2015	02/05/2016	03/23/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.74**	**0.708**	**0.726**	**709**	**0.603**	**0.557**	**0.694**	**0.701**	-	**0.682**
Dissolved Oxygen, Field (mg/L)	-	**0.27**	**0.11**	**0.03**	**0.23**	**0.46**	**0.37**	**0.42**	**0.44**	-	**0.13**
ORP, Field (mV)	-	**-120.9**	**-126.8**	**-146.4**	**-150.7**	**-74.2**	**-12.4**	**-69.1**	**-36.9**	-	**32.6**
pH, Field (s.u)	-	**6.95**	**6.98**	**7.09**	**7.17**	**6.61**	**6.3**	**6.67**	**6.79**	-	**6.69**
Temperature (Deg C)	-	**16.8**	**16.7**	**12.7**	**12.17**	**15.89**	**20.8**	**22.7**	**14.8**	-	**15.96**
Turbidity, Field (NTU)	-	**35.1**	**170**	**999**	**83**	**129**	**63.8**	**117**	**154**	-	**3.64**
Dimethyl phthalate	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Di-n-butylphthalate	700	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	-	ND (10)
Di-n-octyl phthalate	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10) *	-	ND (10)
Fluoranthene	300	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Fluorene	300	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Semi-Volatile Organic Compounds (ug/L) (con't)											
Hexachlorobenzene	0.02	ND (0.022)	ND (0.021)	ND (0.02) *	ND (0.02) *	ND (0.02)	ND (0.02)	ND (0.021)	ND (0.02)	-	ND (0.021) *
Hexachlorobutadiene	1	ND (1.1)	ND (1) *	ND (1) *	ND (1) *	ND (1)	ND (1)	ND (1) *	ND (1) *	-	ND (1)
Hexachlorocyclopentadiene	40	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Hexachloroethane	7	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Indeno(1,2,3-cd)pyrene	0.2	ND (1.1)	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Isophorone	40	ND (11)	ND (10)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	-	ND (10)
Naphthalene	300	ND (11)	ND (10)	ND (10)	ND (10) *	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Nitrobenzene	6	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
N-Nitrosodi-n-propylamine	10	ND (1.1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
N-Nitrosodiphenylamine	10	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Pentachlorophenol	0.3	ND (0.22)	ND (0.21)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.21)	ND (0.2)	-	ND (0.21) *
Phenanthrene	100	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Phenol	2000	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Pyrene	200	ND (11)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (10)
Volatile Organic Compounds (ug/L)											
1,1,1-Trichloroethane	30	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
1,1,2-Trichloroethane	3	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
1,1-Dichloroethane	50	ND (1)	ND (1)	ND (1)	ND (1)	**0.3 J**	ND (1)	ND (1)	ND (1)	-	ND (1)
1,1-Dichloroethene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
1,2,4-Trichlorobenzene	9	ND (1)	ND (1)	**0.62 J**	**0.28 J**	**0.63 J**	ND (1)	ND (1)	ND (1)	-	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (0.02)	ND (0.02)	ND (0.02)	-	ND (0.02)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (0.02)	ND (0.02) *	ND (0.02)	-	ND (0.02)
1,2-Dichlorobenzene	600	ND (1)	ND (1)	ND (1)	ND (1)	**0.25 J**	ND (1)	ND (1)	ND (1)	-	ND (1)
1,2-Dichloroethane	2	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
1,2-Dichloropropane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
1,3-Dichlorobenzene	600	ND (1)	**0.78 J**	**0.85 J**	**0.43 J**	**0.87 J**	ND (1)	ND (1)	ND (1)	-	ND (1)
1,4-Dichlorobenzene	75	ND (1)	**2.2**	**2.6**	**1.2**	**2.8**	ND (1)	ND (1)	ND (1)	-	ND (1)
1,4-Dioxane	0.4	-	-	-	-	-	ND (2)	ND (2)	ND (0.4)	-	ND (0.4)
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)
2-Hexanone	300	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)
Acetone	6000	ND (5)	ND (5)	**220**	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)
Benzene	1	ND (1)	**0.13 J**	**0.19 J**	ND (1)	**0.18 J**	**0.17 J**	**0.15 J**	**0.32 J**	-	ND (1)
Bromodichloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Bromoform	4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Carbon disulfide	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Carbon tetrachloride	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Chlorobenzene	50	ND (1)	**1.4**	**2.1**	**0.75 J**	**2.1**	ND (1)	**0.34 J**	**0.25 J**	-	ND (1)
Chloroethane	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-35A	MW-35A	MW-35A	MW-35A	MW-35A	MW-77	MW-77	MW-77	MW-77	MW-77
Sample ID	Groundwater	MW35A-061215-1052	MW35A-091715-1128	MW35A-121615-1347	MW35A-032416-1222	MW35A-101916-1006	MW77-061515-1027	MW77-091615-1141	MW77-121715-1007	MW77-020516-1221	MW77-032316-1031
Lab Sample ID	Quality	460-96394-6	460-101286-9	460-106433-14	460-111067-11	460-122517-6	460-96461-9	460-101215-5	460-106444-9	460-108647-1	460-110896-6
Sample Date	Standard	06/12/2015	09/17/2015	12/16/2015	03/24/2016	10/19/2016	06/15/2015	09/16/2015	12/17/2015	02/05/2016	03/23/2016
Field Parameters											
Conductivity, Field (mS/cm)	-	**0.74**	**0.708**	**0.726**	**709**	**0.603**	**0.557**	**0.694**	**0.701**	-	**0.682**
Dissolved Oxygen, Field (mg/L)	-	**0.27**	**0.11**	**0.03**	**0.23**	**0.46**	**0.37**	**0.42**	**0.44**	-	**0.13**
ORP, Field (mV)	-	**-120.9**	**-126.8**	**-146.4**	**-150.7**	**-74.2**	**-12.4**	**-69.1**	**-36.9**	-	**32.6**
pH, Field (s.u)	-	**6.95**	**6.98**	**7.09**	**7.17**	**6.61**	**6.3**	**6.67**	**6.79**	-	**6.69**
Temperature (Deg C)	-	**16.8**	**16.7**	**12.7**	**12.17**	**15.89**	**20.8**	**22.7**	**14.8**	-	**15.96**
Turbidity, Field (NTU)	-	**35.1**	**170**	**999**	**83**	**129**	**63.8**	**117**	**154**	-	**3.64**
Chloroform (Trichloromethane)	70	**0.51 J**	ND (1)	ND (1)	**0.44 J**	**0.29 J**	ND (1)	ND (1)	ND (1)	-	ND (1)
Chloromethane (Methyl Chloride)	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
cis-1,2-Dichloroethene	70	**2.3**	**0.67 J**	**0.6 J**	**3.1**	**4.6**	**12**	**7.4**	**5.6**	-	**20**
cis-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Cyclohexane	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Dibromochloromethane	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Dichlorodifluoromethane (CFC-12)	1000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Ethylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Isopropylbenzene	700	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Volatile Organic Compounds (ug/L) (cont')											
Methyl acetate	7000	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (5)
Methyl cyclohexane	100	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Methyl Tert Butyl Ether	70	**0.23 J**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Methylene chloride	3	ND (1)	ND (1)	**1.3**	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Styrene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Tetrachloroethene	1	**0.14 J**	ND (1)	ND (1)	**0.21 J**	**0.16 J**	ND (1)	ND (1)	ND (1)	-	ND (1)
Toluene	600	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
trans-1,2-Dichloroethene	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**0.43 J**	**0.44 J**	**0.18 J**	-	**0.5 J**
trans-1,3-Dichloropropene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Trichloroethene	1	**0.76 J**	ND (1)	**0.44 J**	**0.94 J**	**2.8** [A]	**0.61 J**	**0.48 J**	**0.48 J**	-	**0.68 J**
Trichlorofluoromethane (CFC-11)	2000	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Trifluorotrichloroethane (Freon 113)	20000	ND (1)	ND (1)	ND (1) *	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (1)
Vinyl chloride	1	**1.7** [A]	**0.4 J**	ND (1)	**1.6** [A]	ND (1)	**1.6** [A]	**1.3** [A]	**0.96 J**	-	**3.4** [A]
Xylene (total)	1000	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	-	ND (2)

Notes:
1. ND: Result is not detected above the indicated reporting limit.
   J: Estimated value
   B: Possible blank contamination
   E: Exceeds calibration limits
   F1: MS and/or MSD recovery exceeds the control limits.
   * - Recovery Exceeds control limits
2. Results in red exceed the following criteria:
   - Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

	Location	MW-77
	Sample ID Groundwater	MW77-102116-1036
	Lab Sample ID Quality	460-122507-4
	Sample Date Standard	10/21/2016
Field Parameters		
Conductivity, Field (mS/cm)	-	**0.825**
Dissolved Oxygen, Field (mg/L)	-	**0.23**
ORP, Field (mV)	-	**-6.4**
pH, Field (s.u)	-	**6.45**
Temperature (Deg C)	-	**21.63**
Turbidity, Field (NTU)	-	**6.41**
Inorganic Compounds - Total (ug/L)		
Cyanide	100	ND (10)
Antimony, Total	6	**2**
Arsenic, Total	3	**2.8**
Barium, Total	6000	**94.3**
Beryllium, Total	1	ND (0.8)
Cadmium, Total	4	ND (2)
Chromium, Total	70	**10.2**
Chromium VI (Hexavalent), Total	NC	-
Cobalt, Total	100	**5.4**
Copper, Total	1300	**10.5**
Lead, Total	5	**1.6**
Manganese, Total	50	**5020** [A]
Mercury, Total	2	ND (0.2)
Nickel, Total	100	**124** [A]
Selenium, Total	40	ND (10)
Silver, Total	40	ND (2)
Zinc, Total	2000	**99.7**
Inorganic Compounds - Dissolved (ug/L)		
Antimony, Dissolved	6	-
Arsenic, Dissolved	3	-
Barium, Dissolved	6000	-
Beryllium, Dissolved	1	-
Cadmium, Dissolved	4	-
Chromium, Dissolved	70	-
Cobalt, Dissolved	100	-
Copper, Dissolved	1300	-
Lead, Dissolved	5	-
Manganese, Dissolved	50	-
Mercury, Dissolved	2	-
Nickel, Dissolved	100	-
Selenium, Dissolved	40	-
Silver, Dissolved	40	-
Zinc, Dissolved	2000	-
PCBs (ug/L)		
Aroclor-1016 (PCB-1016)	0.5	-
Aroclor-1221 (PCB-1221)	0.5	-
Aroclor-1232 (PCB-1232)	0.5	-
Aroclor-1242 (PCB-1242)	0.5	-
Aroclor-1248 (PCB-1248)	0.5	-
Aroclor-1254 (PCB-1254)	0.5	-
Aroclor-1260 (PCB-1260)	0.5	-
Aroclor-1262 (PCB-1262)	0.5	-
Aroclor-1268 (PCB-1268)	0.5	-
Polychlorinated biphenyls (PCBs)	0.5	-

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

	Location		MW-77
	Sample ID	Groundwater	MW77-102116-1036
	Lab Sample ID	Quality	460-122507-4
	Sample Date	Standard	10/21/2016
Field Parameters			
Conductivity, Field (mS/cm)		-	**0.825**
Dissolved Oxygen, Field (mg/L)		-	**0.23**
ORP, Field (mV)		-	**-6.4**
pH, Field (s.u)		-	**6.45**
Temperature (Deg C)		-	**21.63**
Turbidity, Field (NTU)		-	**6.41**
Semi-Volatile Organic Compounds (ug/L)			
2,2'-oxybis(1-Chloropropane)		300	ND (10)
2,4,5-Trichlorophenol		700	ND (10)
2,4,6-Trichlorophenol		20	ND (10)
2,4-Dichlorophenol		20	ND (10)
2,4-Dimethylphenol		100	ND (10)
2,4-Dinitrophenol		40	ND (20)
2,4-Dinitrotoluene		10	ND (2)
2,6-Dinitrotoluene		10	ND (2)
2-Chloronaphthalene		600	ND (10)
2-Chlorophenol		40	ND (10)
2-Methylnaphthalene		30	ND (10)
2-Methylphenol		50	ND (10) *
2-Nitroaniline		100	ND (10)
2-Nitrophenol		100	ND (10)
3,3'-Dichlorobenzidine		30	ND (10)
3-Nitroaniline		100	ND (10)
4,6-Dinitro-2-methylphenol		1	ND (20)
4-Bromophenyl phenyl ether		100	ND (10)
4-Chloro-3-methylphenol		100	ND (10)
4-Chloroaniline		30	ND (10)
4-Chlorophenyl phenyl ether		100	ND (10)
4-Methylphenol		50	ND (10)
4-Nitroaniline		100	ND (10)
4-Nitrophenol		100	ND (20)
Acenaphthene		400	ND (10)
Acenaphthylene		100	ND (10)
Acetophenone		700	ND (10)
Anthracene		2000	ND (10)
Atrazine		3	ND (2)
Benzaldehyde		100	ND (10)
Benzo(a)anthracene		0.1	ND (0.05)
Benzo(a)pyrene		0.1	ND (0.05)
Benzo(b)fluoranthene		0.2	ND (0.05)
Benzo(g,h,i)perylene		100	ND (10)
Benzo(k)fluoranthene		0.5	ND (1)
Biphenyl		400	ND (10)
bis(2-Chloroethoxy)methane		100	ND (10)
bis(2-Chloroethyl)ether		7	ND (1)
bis(2-Ethylhexyl)phthalate		3	**0.72 J**
Butyl benzylphthalate		100	ND (10)
Caprolactam		5000	ND (10) *
Carbazole		100	ND (10)
Chrysene		5	ND (2)
Dibenz(a,h)anthracene		0.3	ND (1)
Dibenzofuran		100	ND (10)
Diethyl phthalate		6000	ND (10)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location		MW-77
Sample ID	Groundwater	MW77-102116-1036
Lab Sample ID	Quality	460-122507-4
Sample Date	Standard	10/21/2016
Field Parameters		
Conductivity, Field (mS/cm)	-	**0.825**
Dissolved Oxygen, Field (mg/L)	-	**0.23**
ORP, Field (mV)	-	**-6.4**
pH, Field (s.u)	-	**6.45**
Temperature (Deg C)	-	**21.63**
Turbidity, Field (NTU)	-	**6.41**
Dimethyl phthalate	100	ND (10)
Di-n-butylphthalate	700	ND (10)
Di-n-octyl phthalate	100	ND (10)
Fluoranthene	300	ND (10)
Fluorene	300	ND (10)
Semi-Volatile Organic Compounds (ug/L) (con't)		
Hexachlorobenzene	0.02	ND (0.02) *
Hexachlorobutadiene	1	ND (1) *
Hexachlorocyclopentadiene	40	ND (10)
Hexachloroethane	7	ND (1)
Indeno(1,2,3-cd)pyrene	0.2	ND (1)
Isophorone	40	ND (10)
Naphthalene	300	ND (10)
Nitrobenzene	6	ND (1)
N-Nitrosodi-n-propylamine	10	ND (1)
N-Nitrosodiphenylamine	10	ND (10)
Pentachlorophenol	0.3	ND (0.2)
Phenanthrene	100	ND (10)
Phenol	2000	ND (10)
Pyrene	200	ND (10)
Volatile Organic Compounds (ug/L)		
1,1,1-Trichloroethane	30	ND (1)
1,1,2,2-Tetrachloroethane	1	ND (1)
1,1,2-Trichloroethane	3	ND (1)
1,1-Dichloroethane	50	ND (1)
1,1-Dichloroethene	1	ND (1)
1,2,4-Trichlorobenzene	9	ND (1)
1,2-Dibromo-3-chloropropane (DBCP)	0.02	ND (0.02)
1,2-Dibromoethane (Ethylene Dibromide)	0.03	ND (0.02)
1,2-Dichlorobenzene	600	ND (1)
1,2-Dichloroethane	2	ND (1)
1,2-Dichloropropane	1	ND (1)
1,3-Dichlorobenzene	600	ND (1)
1,4-Dichlorobenzene	75	ND (1)
1,4-Dioxane	0.4	ND (0.4)
2-Butanone (Methyl Ethyl Ketone)	300	ND (5)
2-Hexanone	300	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	100	ND (5)
Acetone	6000	**13**
Benzene	1	**0.099 J**
Bromodichloromethane	1	ND (1)
Bromoform	4	ND (1)
Bromomethane (Methyl Bromide)	10	ND (1)
Carbon disulfide	700	ND (1)
Carbon tetrachloride	1	ND (1)
Chlorobenzene	50	**0.84 J**
Chloroethane	5	ND (1)

TABLE I
POST REDEVELOPEMENT GROUNDWATER COMPARISON
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

	Location		MW-77
	Sample ID	Groundwater	MW77-102116-1036
	Lab Sample ID	Quality	460-122507-4
	Sample Date	Standard	10/21/2016
Field Parameters			
Conductivity, Field (mS/cm)		-	**0.825**
Dissolved Oxygen, Field (mg/L)		-	**0.23**
ORP, Field (mV)		-	**-6.4**
pH, Field (s.u)		-	**6.45**
Temperature (Deg C)		-	**21.63**
Turbidity, Field (NTU)		-	**6.41**
Chloroform (Trichloromethane)		70	ND (1)
Chloromethane (Methyl Chloride)		100	ND (1)
cis-1,2-Dichloroethene		70	**4.9**
cis-1,3-Dichloropropene		1	ND (1)
Cyclohexane		100	ND (1)
Dibromochloromethane		1	ND (1)
Dichlorodifluoromethane (CFC-12)		1000	ND (1)
Ethylbenzene		700	ND (1)
Isopropylbenzene		700	ND (1)
Volatile Organic Compounds (ug/L) (cont')			
Methyl acetate		7000	ND (5)
Methyl cyclohexane		100	ND (1)
Methyl Tert Butyl Ether		70	ND (1)
Methylene chloride		3	ND (1)
Styrene		100	ND (1)
Tetrachloroethene		1	ND (1)
Toluene		600	ND (1)
trans-1,2-Dichloroethene		100	**0.3 J**
trans-1,3-Dichloropropene		1	ND (1)
Trichloroethene		1	ND (1)
Trichlorofluoromethane (CFC-11)		2000	ND (1)
Trifluorotrichloroethane (Freon 113)		20000	ND (1)
Vinyl chloride		1	**1.3** [A]
Xylene (total)		1000	ND (2)

Notes:
1. ND: Result is not detected above the indicated reporting limit.
   J: Estimated value
   B: Possible blank contamination
   E: Exceeds calibration limits
   F1: MS and/or MSD recovery exceeds the control limits.
   * - Recovery Exceeds control limits
2. Results in red exceed the following criteria:
   - Groundwater Quality Standards (GWQS)
3. Results in **bold** are detected.

APPENDIX E

SPLP and Delineation Data

SPLP Soil Borings and Data



LEGEND

- PROPERTY LINE
- FENCE
- WATER BODY
- 130 GROUND ELEVATION CONTOUR (1FT.)
- 2016 SPLP SOIL BORING LOCATIONS
- 2012 SPLP SOIL BORING LOCATIONS

NOTES:

1. SITE PLAN BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, LS, DATED NOVEMBER 20, 2002, REVISED TO 10 JULY 2015.

N

0 150 300
SCALE IN FEET

HALEY ALDRICH

REMEDIAL ACTION REPORT ADDENDUM
RACER TRUST - EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

2012 AND 2016 SPLP SOIL BORING LOCATIONS

SCALE: AS SHOWN
APRIL 2017

FIGURE 3

POSTOLOWSKI, KEVIN Printed: 4/27/2017 11:23 AM Layout: FIG 3
V:\PROJECTS\70613\GLOBAL\CAD\DRAWINGS\2017\70613_821_0002_SPLP_SOIL_BORINGS.DWG

TABLE II
SUMMARY OF 2012 SPLP ANALYTICAL RESULTS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location	B3-4-200	B3-4-200	B6-201	B6-201	B9-16-200	B9-16-200	B9-16-200	GS08-200	GS08-200	PL05-200	PL05-201	PL05-201
Sample Name	2351-042312-1530	2351-042312-1540	2351-042312-1350	2351-042312-1400	2351-042512-1120	2351-042512-1140	2351-042512-0003	2351-042412-1500	2351-042412-1510	2351-042512-1605	2351-042512-1530	2351-042512-1535
Sample Date	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/25/2012	4/25/2012	4/25/2012	4/24/2012	4/24/2012	4/25/2012	4/25/2012	4/25/2012
Sample Depth (bgs)	0.5 - 1 (ft)	9.5 - 10 (ft)	0.5 - 1 (ft)	9.5 - 10 (ft)	0 - 0.5 (ft)	5 - 5.5 (ft)	5 - 5.5 (ft)	0.5 - 1 (ft)	11.5 - 12 (ft)	2.5 - 3 (ft)	0.5 - 1 (ft)	2.5 - 3 (ft)
INORGANIC COMPOUNDS (mg/kg)												
Antimony	0.54 U	0.53 U	**0.5 J**	0.57 U	0.51 U	0.56 U	0.59 U	0.58 U	0.62 U	0.58 U	0.57 U	0.57 U
Arsenic	**6**	**1.9**	**76.2**	**5.9**	**5**	**8.8**	**4.2**	**5**	**5.5**	**9.8**	**7.5**	**9.3**
Barium	**75.6**	**292**	**70.6**	**88.5**	**30.4**	**71.3**	**106**	**85.3**	**41.9**	**43.1**	**143**	**56.8**
Beryllium	**0.9**	**1.4**	**0.54**	**0.74**	**0.43**	**0.57**	**0.73**	**0.7**	**0.71**	**0.47**	**1.4**	**0.51**
Cadmium	0.54 U	0.53 U	**1.1**	0.57 U	0.51 U	0.56 U	0.59 U	0.58 U	0.62 U	0.58 U	0.57 U	0.57 U
Chromium VI (Hexavalent)	0.47 U	0.48 U	0.47 U	0.49 U	**10.7**	**19.5**	0.48 U	**2.1**	0.5 U	**2.1**	**1.4**	**0.49 J**
Chromium	**22.6**	**27.4**	**26.7**	**23.3**	0.44 U	**0.21 J**	**21.9**	**31.2**	**24.5**	**26.8**	**15.1**	**28.9**
Cobalt	**9.1**	**10.8**	**6.7**	**8.7**	**13.8**	**6**	**9.3**	**6.6**	**7.6**	**3.8**	**6.5**	**4.1**
Copper	**15.2**	**9.4**	**54.6**	**15.2**	**10.5**	**14.2**	**12.1**	**24.4**	**13.8**	**12.4**	**10.8**	**101**
Cyanide	0.58 U	0.6 U	**0.56 J**	0.59 U	**0.12 J**	**0.22 J**	0.61 U	**0.38 J**	0.6 U	0.62 U	**0.31 J**	0.61 U
Lead	**15.7**	**11.5**	**66.2**	**11.2**	**12.5**	**11.1**	**18**	**30.3**	**8.9**	**13.4**	**20.7**	**13.1**
Manganese	**438**	**808**	**283**	**298**	**215**	**300**	**375**	**356**	**258**	**88.1**	**1240**	**99.7**
Mercury	0.038 U	0.039 U	**0.1**	**0.026 J**	**0.031 J**	**0.041**	0.035 U	**0.03 J**	0.038 U	0.042 U	**0.056**	**0.029 J**
Nickel	**13.7**	**14.5**	**31.7**	**14.3**	**7.4**	**11.1**	**13**	**16.5**	**16.4**	**96.7**	**142**	**168**
Selenium	**1.9**	**2.4**	**1.8**	**2.8**	**0.93**	**0.73**	**1.4**	**1.8**	**1.5**	**1.2**	**3.4**	**1.1**
Silver	1.1 U	1.1 U	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U
Zinc	**32.8**	**23.5**	**142**	**33**	**23.6**	**35.5**	**36.9**	**85.4**	**31.7**	**32.3**	**34.1**	**34.3**
Inorganic Compounds (mg/L)												
Chromium VI (Hexavalent)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
SPLP COMPOUNDS (ug/L)												
Antimony	2.5 U	2.5 U	**1.9 J**	2.5 U	2.5 U	2.5 U	-	2.5 U	**1.9 J**	2.5 U	2.5 U	2.5 U
Arsenic	**4.2**	2.5 U	**13.2**	**2.8**	**7.4**	**3**	-	**2.3 J**	2.5 U	2.5 U	**7.1**	2.5 U
Barium	**18.9**	**30**	**26.5**	**15.6**	**19.4**	**12.3**	-	**30.8**	**10.2**	5 U	**4.2 J**	**15.1**
Beryllium	1 U	1 U	1 U	1 U	1 U	1 U	-	1 U	1 U	1 U	1 U	1 U
Cadmium	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	-	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chromium	**3.9 J**	**4.7 J**	**22.7**	5 U	**7.1**	5 U	-	**7**	5 U	5 U	5 U	5 U
Cobalt	5 U	5 U	5 U	5 U	5 U	5 U	-	5 U	5 U	5 U	5 U	5 U
Copper	**4.2 J**	**7.3**	**10**	**3.8 J**	**8.5**	**82.8**	-	**8.6**	5 U	5 U	**7.4**	**46.9**
Cyanide	10 U	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	10 U	10 U	10 U
Lead	1.5 U	**1.3 J**	**3.2**	1.5 U	**6**	**24.4**	-	**7.1**	1.5 U	1.5 U	1.5 U	1.5 U
Manganese	**20.1**	**38.4**	10 U	**17.9**	**24.9**	**32.7**	-	**30.2**	**17.3**	10 U	10 U	**15.2**
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	5 U	5 U	5 U	5 U	**5.8**	**7.1**	-	**5.2**	**5**	**30.7**	**11.4**	**332**
Selenium	**2.4 J**	2.5 U	**4.2**	**1.5 J**	2.5 U	2.5 U	-	2.5 U	**1.9 J**	2.5 U	**4.6**	2.5 U
Silver	5 U	5 U	5 U	5 U	5 U	5 U	-	5 U	5 U	5 U	5 U	5 U
Zinc	20 U	20 U	**63.3**	20 U	20 U	**168**	-	**34.3**	20 U	**50.1**	20 U	20 U

Notes:
1. U - Not detected above the reporting limit
2. Results in **bold** were detected
3. J - Estimated result

TABLE II
SUMMARY OF 2012 SPLP ANALYTICAL RESULTS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location	PL05-202	PL05-202	SB-11-SO-200	SB-11-SO-200	SB-11-SO-201	SB-11-SO-201	TP9-2-202	TP9-2-202	TP9-3-203	TP9-3-203	TP9-3-203
Sample Name	2351-042512-1500	2351-042512-1510	2351-042512-1300	2351-042512-1305	2351-042512-1315	2351-042512-1320	2351-042612-1350	2351-042612-1355	2351-042712-0003	2351-042712-1240	2351-042712-1250
Sample Date	4/25/2012	4/25/2012	4/25/2012	4/25/2012	4/25/2012	4/25/2012	4/26/2012	4/26/2012	4/27/2012	4/27/2012	4/27/2012
Sample Depth (bgs)	0.5 - 1 (ft)	2.5 - 3 (ft)	0 - 0.5 (ft)	3.5 - 4 (ft)	0 - 0.5 (ft)	3.5 - 4 (ft)	2.5 - 3 (ft)	9 - 9.5 (ft)	9 - 9.5 (ft)	2.5 - 3 (ft)	9 - 9.5 (ft)
INORGANIC COMPOUNDS (mg/kg)											
Antimony	0.58 U	0.57 U	0.57 U	0.54 U	**0.66**	0.53 U	**2.5**	0.53 U	0.54 U	**1.1**	0.56 U
Arsenic	**2.8**	**5.7**	**4.2**	**6.5**	**8.2**	**8.5**	**43.4**	**8.4**	**5.9**	**23.4**	**8.9**
Barium	**107**	**34.8**	**47**	**201**	**166**	**457**	**247**	**48.5**	**84.2**	**4110**	**78.9**
Beryllium	**0.98**	**0.64**	**0.48**	**0.85**	**1.6**	**0.95**	0.29 U	**0.44**	**0.51**	**0.45**	**0.64**
Cadmium	0.58 U	0.57 U	0.57 U	0.54 U	0.62 U	0.53 U	**1**	0.53 U	0.54 U	**3**	0.56 U
Chromium VI (Hexavalent)	**2.4**	**0.47 J**	**0.81**	0.44 U	**1.4**	0.47 U	**0.76**	0.49 U	**0.58**	**0.4 J**	**0.19 J**
Chromium	**51.4**	**19**	**12.9**	**19.4**	**20.9**	**29.5**	**108**	**20.8**	**20.1**	**1540**	**24.3**
Cobalt	**4.9**	**5.9**	**3.6**	**18.9**	**9.5**	**20.5**	**32.8**	**10**	**5.1**	**15.8**	**5.9**
Copper	**27.2**	**17.7**	**7.4**	**59.2**	**22.5**	**20.4**	**7480**	**22.2**	**89.2**	**5270**	**98.4**
Cyanide	**0.12 J**	0.6 U	0.62 U	0.55 U	**0.18 J**	0.6 U	**9.1**	0.59 U	0.6 U	**7.4**	0.62 U
Lead	**11.6**	**9.2**	**8.7**	**13.7**	**228**	**19.4**	**40.1**	**11.3**	**10.8**	**328**	**13.5**
Manganese	**703**	**129**	**117**	**1730**	**927**	**2280**	**3190**	**207**	**443**	**137**	**391**
Mercury	0.038 U	**0.051**	**0.029 J**	0.035 U	**0.088**	0.036 U	**0.42**	**0.031 J**	**0.029 J**	**0.46**	**0.024 J**
Nickel	**12.4**	**13.3**	**8.7**	**16.7**	**19**	**16.9**	**203**	**19.3**	**21.7**	**546**	**32.2**
Selenium	**2.1**	**0.99**	**1.4**	**1.4**	**3.4**	**1.8**	0.72 U	**0.98**	**1.4**	**1.1**	**1.7**
Silver	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.4 U	1.1 U	1.1 U	**3.1**	1.1 U
Zinc	**31.6**	**34**	**26.3**	**39.6**	**160**	**48.3**	**14200**	**52.6**	**53.9**	**10500**	**55.3**
Inorganic Compounds (mg/L)											
Chromium VI (Hexavalent)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	0.01 U	0.01 U
SPLP COMPOUNDS (ug/L)											
Antimony	2.5 U	2.5 U	2.5 U	2.5 U	**64.2**	2.5 U	**27.1 B**	2.5 U	-	**8.2**	2.5 U
Arsenic	**4**	**17.5**	2.5 U	2.5 U	**2.4 J**	2.5 U	**4.3**	**11.7**	-	**12.3**	**6.6**
Barium	**51.2**	**43.5**	**10.3**	**4 J**	**14.6**	**5.2**	**428**	**159**	-	**973**	**31.2**
Beryllium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	-	1 U	1 U
Cadmium	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1 U	2.5 U	-	2.5 U	2.5 U
Chromium	**35.5**	**23.8**	5 U	5 U	5 U	5 U	**2.8**	**19**	-	**5.5**	**17.1**
Cobalt	5 U	**7.8**	5 U	5 U	5 U	5 U	**1**	**10.3**	-	5 U	5 U
Copper	**55.7**	**24**	5 U	5 U	**5.3**	5 U	**233**	**99**	-	**112**	**98.7**
Cyanide	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U
Lead	**8.4**	**10.9**	1.5 U	1.5 U	**17.1**	1.5 U	**0.88 J B**	**16.5**	-	**6.6**	**7.1**
Manganese	**231**	**192**	**16.8**	**31.3**	**39**	**47.2**	**17.3 B**	**52.7**	-	**12.9**	**25.6**
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	0.2 U	0.2 U
Nickel	**14.2**	**11.7**	5 U	5 U	5 U	5 U	**31.8**	**205**	-	**28.1**	**16.2**
Selenium	**2.7**	**3.1**	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	-	2.5 U	2.5 U
Silver	5 U	5 U	5 U	5 U	5 U	5 U	**0.18 J B**	5 U	-	5 U	5 U
Zinc	**50.2**	**28.3**	20 U	20 U	20 U	**31.5**	**133**	**325**	-	**100**	**32**

Notes:
1. U - Not detected above the reporting limit
2. Results in **bold** were detected
3. J - Estimated result

TABLE III
SUMMARY OF 2016 SPLP ANALYTICAL RESULTS
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	268-2R	268-2R	268-2R	268-2R	B7-3R	B7-3R	B7-5R	B8-4	B8-4-100	B8-4-100	B8-4-102	B8-8-1	B8-8-1	B8-8-2-100	B8-8-2-100	B8-8-2-101
Sample Date	09/12/2016	09/12/2016	09/12/2016	09/12/2016	09/13/2016	09/13/2016	09/13/2016	09/15/2016	09/15/2016	09/15/2016	09/15/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016
Sample Depth (bgs)	3.3 - 3.8 (ft)	6.5 - 7 (ft)	7 - 7.5 (ft)	7.5 - 8 (ft)	3.5 - 4 (ft)	10 - 10.5 (ft)	2.5 - 3 (ft)	6 - 8 (ft)	0 - 0.5 (ft)	8 - 8.5 (ft)	8 - 8.5 (ft)	7.8 - 8.3 (ft)	12 - 12.5 (ft)	7.8 - 8.3 (ft)	9.5 - 10 (ft)	7.8 - 8.3 (ft)
Sample Name	479-091216-152	479-091216-153	479-091216-154	4479-091216-1530	479-091316-111	479-091316-112	4479-091316-1525	479-091516-081	479-091516-082	479-091516-084	479-091516-085	479-091416-141	479-091416-142	479-091416-121	479-091416-122	479-091416-134
Inorganic Compounds (mg/kg)																
Arsenic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	**9200**	**3000**	**2500**	-	**2300**	**630**	-	**4200**	-	-	-	**6.1**	**220**	-	-	-
SPLP Inorganics (ug/L)																
Arsenic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	**1850**	**1640**	**2570**	-	ND (10)	**1.05 J**	-	**69.8**	-	-	-	-	**5.77**	-	-	-
Other (%)																
Clay Fine	-	-	-	**13.9**	-	-	-	**1.3**	-	-	-	-	-	-	-	-
Coarse Gravel	-	-	-	ND (0.1)	-	-	-	ND (0.1)	-	-	-	-	-	-	-	-
Coarse Sand	-	-	-	**2.4**	-	-	-	**14.1**	-	-	-	-	-	-	-	-
Cobbles	-	-	-	ND (0.1)	-	-	-	ND (0.1)	-	-	-	-	-	-	-	-
Fine Gravel	-	-	-	ND (0.1)	-	-	-	**19.7**	-	-	-	-	-	-	-	-
Fine Sand	-	-	-	**18.4**	-	-	-	**20.8**	-	-	-	-	-	-	-	-
Medium Sand	-	-	-	**7.8**	-	-	-	**24.7**	-	-	-	-	-	-	-	-
Silt Fine	-	-	-	**57.5**	-	-	-	**19.4**	-	-	-	-	-	-	-	-
Total Fines	-	-	-	**71.4**	-	-	-	**20.7**	-	-	-	-	-	-	-	-
Total Solids	**75.9**	**79.3**	**78.4**	**80.6**	**59.6**	**71.2**	**86.1**	**77.2**	**93.6**	**73.2**	**54**	**84.4**	**78.7**	**71.2**	**66.1**	**65.4**
Other (mg/kg)																
Total Organic Carbon (TOC) - Rep1	-	-	-	**683**	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC) - Rep2	-	-	-	**687**	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (mg/kg)																
Benzene	-	-	-	-	-	-	-	-	-	**0.086 J**	**2.6**	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	**2.6**	**83**	**0.084**	**0.0061**	**20**	**24**	**22**
Trichloroethene	-	-	-	-	-	-	**0.0054**	-	ND (0.0018)	-	-	-	-	-	-	-
Vinyl chloride	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLP Volatile Organic Compounds (ug/L)																
Benzene	-	-	-	-	-	-	-	-	-	**1.3**	**29**	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	**42**	**470**	-	-	**460**	**130**	**270**
Trichloroethene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Results in **bold** were detected.
2. ND - Not detected above the reporting limit
3. J - Estimated result

TABLE III
SUMMARY OF 2016 SPLP ANALYTICAL RESULTS
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	B8-8-2-102	B8-8-2-102	B9-16	B9-16-100	B9-2-100R	B9-2-100R	B9-2-101R	B9-2-101R	B9-2-103R	B9-2-103R	B9-2R	B9-2R	B9-9	ISO5/ISO5-100R	ISO5/ISO5-100R	ISO5-102R
Sample Date	09/14/2016	09/14/2016	09/15/2016	09/15/2016	09/16/2016	09/16/2016	09/16/2016	09/16/2016	09/16/2016	09/16/2016	09/16/2016	09/16/2016	09/15/2016	09/13/2016	09/13/2016	09/13/2016
Sample Depth (bgs)	7.8 - 8.3 (ft)	9.5 - 10 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	2.5 - 3 (ft)	0 - 0.5 (ft)	2.5 - 3 (ft)	0 - 0.5 (ft)	2.5 - 3 (ft)	0 - 0.5 (ft)	2.5 - 3 (ft)	0 - 0.5 (ft)	1 - 1.5 (ft)	2.5 - 3 (ft)	1 - 1.5 (ft)
Sample Name	479-091416-113	479-091416-114	479-091516-130	479-091516-131	479-091616-114	479-091616-114	479-091616-113	479-091616-113	479-091616-113	479-091616-113	479-091616-114	479-091616-114	479-091516-142	4479-091316-0915	4479-091316-0930	479-091316-094
Inorganic Compounds (mg/kg)																
Arsenic	-	-	**69**	**50**	**24**	**6.5**	**68**	**7**	**47**	**7.5**	**34**	-	**62**	-	-	**7**
Nickel	-	-	-	-	-	-	-	-	-	-	-	-	-	**720**	-	-
SPLP Inorganics (ug/L)																
Arsenic	-	-	**17.6**	**24.6**	**13.6**	-	**54.6**	-	**16.4**	-	**10.1**	-	**8.42**	-	-	-
Nickel	-	-	-	-	-	-	-	-	-	-	-	-	-	**12.1**	-	-
Other (%)																
Clay Fine	-	-	-	-	-	-	-	-	-	-	-	**24.3**	-	-	-	-
Coarse Gravel	-	-	-	-	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-
Coarse Sand	-	-	-	-	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-
Cobbles	-	-	-	-	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-
Fine Gravel	-	-	-	-	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-
Fine Sand	-	-	-	-	-	-	-	-	-	-	-	**3.6**	-	-	-	-
Medium Sand	-	-	-	-	-	-	-	-	-	-	-	**0.6**	-	-	-	-
Silt Fine	-	-	-	-	-	-	-	-	-	-	-	**71.5**	-	-	-	-
Total Fines	-	-	-	-	-	-	-	-	-	-	-	**95.8**	-	-	-	-
Total Solids	**62.5**	**62.1**	**93.7**	**93.3**	**90.2**	**92.9**	**91.3**	**90.5**	**89.7**	**91.7**	**88.9**	**92.4**	**87.7**	**86.4**	**75.2**	**84.5**
Other (mg/kg)																
Total Organic Carbon (TOC) - Rep1	-	-	-	-	-	-	-	-	-	-	-	**1380**	-	-	-	-
Total Organic Carbon (TOC) - Rep2	-	-	-	-	-	-	-	-	-	-	-	**1480**	-	-	-	-
Volatile Organic Compounds (mg/kg)																
Benzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	**22**	**6.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	ND (1.5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.001 J**	**0.31**	ND (0.0026)
SPLP Volatile Organic Compounds (ug/L)																
Benzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	**180**	**58**	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**14**	-

Notes:
1. Results in **bold** were detected.
2. ND - Not detected above the reporting limit
3. J - Estimated result

TABLE III
SUMMARY OF 2016 SPLP ANALYTICAL RESULTS
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	ISO5-103R	ISO5-103R	ISO6-103R	ISO6R	ISO7-103R	PL07-01	PL07-01R	PL07-107R	PL107-107	SB-10-SO-10	SB-10-SO-10	SB-10-SO-10-100	SB-10-SO-10-103	SB-10-SO-10-103	SB-10-SO-5A
Sample Date	09/13/2016	09/16/2016	09/13/2016	09/13/2016	09/13/2016	09/14/2016	09/12/2016	09/12/2016	09/14/2016	09/15/2016	09/15/2016	09/15/2016	09/15/2016	09/15/2016	09/15/2016
Sample Depth (bgs)	2.5 - 3 (ft)	1 - 1.5 (ft)	1 - 1.5 (ft)	1 - 1.5 (ft)	2.5 - 3 (ft)	3.5 - 4 (ft)	4.5 - 5 (ft)	0.5 - 1 (ft)	4.5 - 5 (ft)	3 - 4 (ft)	4 - 6 (ft)	6 - 6.5 (ft)	4.5 - 5 (ft)	6.5 - 7 (ft)	2 - 4 (ft)
Sample Name	479-091316-085	479-091616-12(	479-091316-10	479-091316-12	479-091316-12(	479-091416-085	PL07-01R	PL07-107R	479-091416-084	479-091516-094	479-091516-10(	4479-091516-1020	4479-091516-1045	4479-091516-1055	4479-091516-1435
Inorganic Compounds (mg/kg)															
Arsenic	-	-	**46**	**62**	**45**	-	-	-	-	-	-	-	-	-	-
Nickel	-	-	-	**190**	-	**1100**	**930**	**5300**	**5.4**	**480**	**5000**	-	-	-	**860**
SPLP Inorganics (ug/L)															
Arsenic	-	-	**10.8**	**13**	**11.6**	-	-	-	-	-	-	-	-	-	-
Nickel	-	-	-	-	-	**348**	**103**	**70.3**	-	**122**	**127**	-	-	-	**0.962 J**
Other (%)															
Clay Fine	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-
Coarse Gravel	-	ND (0.1)	-	-	-	-	-	-	-	-	-	-	-	-	-
Coarse Sand	-	**17.6**	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobbles	-	ND (0.1)	-	-	-	-	-	-	-	-	-	-	-	-	-
Fine Gravel	-	**10**	-	-	-	-	-	-	-	-	-	-	-	-	-
Fine Sand	-	**19.6**	-	-	-	-	-	-	-	-	-	-	-	-	-
Medium Sand	-	**23.1**	-	-	-	-	-	-	-	-	-	-	-	-	-
Silt Fine	-	**26.7**	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Fines	-	**29.7**	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Solids	**75.7**	**84.7**	**80**	**79.2**	**84.2**	**85.9**	**82.4**	**84.7**	**84.9**	**85.9**	**60**	**66.6**	**77**	**72.7**	**91.3**
Other (mg/kg)															
Total Organic Carbon (TOC) - Rep1	-	**103000**	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC) - Rep2	-	**75500**	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (mg/kg)															
Benzene	-	-	-	-	-	-	-	-	-	-	-	**0.61 J**	-	**0.094**	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	**2.9**	**12**	**29**	**5.3**	**3.4**	-
Trichloroethene	-	-	-	-	-	-	-	-	-	-	-	ND (1.2)	-	-	-
Vinyl chloride	**0.08 J**	-	ND (0.004)	**0.00072 J**	-	-	-	-	-	-	-	-	-	-	-
SPLP Volatile Organic Compounds (ug/L)															
Benzene	-	-	-	-	-	-	-	-	-	-	-	**9.6**	-	**1.1**	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	**53**	**160**	**280**	**110**	**34**	-
Trichloroethene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	**3.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Results in **bold** were detected.
2. ND - Not detected above the reporting limit
3. J - Estimated result

TABLE III
SUMMARY OF 2016 SPLP ANALYTICAL RESULTS
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	SB-10-SO-7	SB-10-SO-7	SB-10SO-7-103	SB-7-SO-3-101R	SB-7-SO-3R	SB-7-SO-6R	SB-8-SO-11-103	SB-8-SO-14	SB-AOC010-2013-100	SB-AOC010-2013-117	SB-AOC010-2013-129	SB-AOC1C-2013-107R	SB-AOC8B-2013-104
Sample Date	09/15/2016	09/15/2016	09/15/2016	09/13/2016	09/13/2016	09/13/2016	09/14/2016	09/14/2016	09/15/2016	09/15/2016	09/15/2016	09/12/2016	09/14/2016
Sample Depth (bgs)	4 - 5 (ft)	8 - 10 (ft)	5.5 - 6 (ft)	3.5 - 4 (ft)	8 - 10 (ft)	2 - 4 (ft)	3.5 - 4 (ft)	8 - 10 (ft)	5 - 5.5 (ft)	4 - 4.5 (ft)	3.5 - 4 (ft)	0.5 - 1 (ft)	9.5 - 10 (ft)
Sample Name	479-091516-13	479-091516-13	4479-091516-1330	4479-091316-1410	479-091316-14	479-091316-15(	4479-091416-0920	479-091416-15(	4479-091516-1110	4479-091516-1415	4479-091516-1500	SB-AOC1C-2013-107R	4479-091416-1000
Inorganic Compounds (mg/kg)													
Arsenic	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	**9.7**	**49**	**16**	-	-	**92**	-	-	**550**	-	**11**	-	**480**
SPLP Inorganics (ug/L)													
Arsenic	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	-	-	-	-	-	-	-	-	**162**	-	-	-	**1760**
Other (%)													
Clay Fine	-	-	-	-	-	-	-	-	**3.9**	-	**2.3**	-	-
Coarse Gravel	-	-	-	-	-	-	-	-	ND (0.1)	-	**13.8**	-	-
Coarse Sand	-	-	-	-	-	-	-	-	**17.1**	-	**14.2**	-	-
Cobbles	-	-	-	-	-	-	-	-	ND (0.1)	-	ND (0.1)	-	-
Fine Gravel	-	-	-	-	-	-	-	-	**14.1**	-	**24.7**	-	-
Fine Sand	-	-	-	-	-	-	-	-	**14.6**	-	**10.9**	-	-
Medium Sand	-	-	-	-	-	-	-	-	**22.3**	-	**13**	-	-
Silt Fine	-	-	-	-	-	-	-	-	**28**	-	**21.1**	-	-
Total Fines	-	-	-	-	-	-	-	-	**31.9**	-	**23.4**	-	-
Total Solids	**91.1**	**85.3**	**84.9**	**86.5**	**76.1**	**90.5**	**92.5**	**70.2**	**71.8**	**76.4**	**92.2**	**78**	**78.1**
Other (mg/kg)													
Total Organic Carbon (TOC) - Rep1	-	-	-	-	-	-	-	-	-	-	**2380**	-	-
Total Organic Carbon (TOC) - Rep2	-	-	-	-	-	-	-	-	-	-	**2260**	-	-
Volatile Organic Compounds (mg/kg)													
Benzene	-	-	-	-	-	-	-	-	**0.18**	**0.12**	-	-	-
Chlorobenzene	-	ND (0.0012)	-	-	-	-	**0.002**	**5.7**	-	-	-	-	ND (8.5)
Trichloroethene	-	-	-	-	**0.0014**	ND (0.0014)	-	-	ND (0.097)	-	ND (0.0015)	**0.0012**	-
Vinyl chloride	-	-	-	**0.06 J**	-	-	-	-	-	-	-	-	-
SPLP Volatile Organic Compounds (ug/L)													
Benzene	-	-	-	-	-	-	-	-	**3.9**	**3.5**	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	**28**	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-	**0.17 J**	-	-	-	-
Vinyl chloride	-	-	-	**0.49**	-	-	-	-	-	-	-	-	-

Notes:
1. Results in **bold** were detected.
2. ND - Not detected above the reporting limit
3. J - Estimated result

TABLE III
SUMMARY OF 2016 SPLP ANALYTICAL RESULTS
RACER EWING INDUSTRIAL LAND
EWING, NJ

Location	SB-AOC8B-2013-105	SB-C8R	SB-F10R	SB-F9R	TP9-2-201R	TP9-2-202R	TP9-2-204R	TP9-2-206R	TP9-2-300RR	TP9-2-300RR	TP9-3-304R	TP9-3-304R	TP9-3-305R	TP9-3-305R
Sample Date	09/14/2016	09/12/2016	09/12/2016	09/12/2016	09/16/2016	09/16/2016	09/16/2016	09/16/2016	09/16/2016	09/16/2016	09/16/2016	09/16/2016	09/16/2016	09/16/2016
Sample Depth (bgs)	9.5 - 10 (ft)	2 - 2.5 (ft)	1.5 - 2 (ft)	9.5 - 10 (ft)	2.5 - 3 (ft)	2.5 - 3 (ft)	2.5 - 3 (ft)	2.5 - 3 (ft)	3 - 3.5 (ft)	4.5 - 5 (ft)	3 - 3.5 (ft)	4.5 - 5 (ft)	0 - 0.5 (ft)	3 - 3.5 (ft)
Sample Name	4479-091416-1055	SB-C8R	SB-F10R	SB-F9R	479-091616-09	479-091616-09	479-091616-09	479-091616-09	479-091616-08	479-091616-08	479-091616-10	479-091616-10	479-091616-10	479-091616-10
Inorganic Compounds (mg/kg)														
Arsenic	-	-	-	-	-	**5.5**	-	-	-	**2.5**	-	-	**14**	-
Nickel	**3000**	-	-	-	-	**19**	-	-	-	-	**5.4**	**7.2**	**360**	-
SPLP Inorganics (ug/L)														
Arsenic	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	**767**	-	-	-	-	-	-	-	-	-	-	-	**204**	-
Other (%)														
Clay Fine	-	-	-	**16.9**	-	-	-	-	-	-	-	**11.9**	-	-
Coarse Gravel	-	-	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	-	-
Coarse Sand	-	-	-	**2.8**	-	-	-	-	-	-	-	**1.4**	-	-
Cobbles	-	-	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	-	-
Fine Gravel	-	-	-	**1.9**	-	-	-	-	-	-	-	**2.8**	-	-
Fine Sand	-	-	-	**10.7**	-	-	-	-	-	-	-	**19.4**	-	-
Medium Sand	-	-	-	**9.2**	-	-	-	-	-	-	-	**18**	-	-
Silt Fine	-	-	-	**58.5**	-	-	-	-	-	-	-	**46.5**	-	-
Total Fines	-	-	-	**75.4**	-	-	-	-	-	-	-	**58.4**	-	-
Total Solids	**79.6**	**85**	**83.2**	**84.4**	**89.8**	**81.4**	**85.4**	**83**	**75.7**	**62.2**	**83.2**	**87**	**81.8**	**75.6**
Other (mg/kg)														
Total Organic Carbon (TOC) - Rep1	-	-	-	**1320**	-	-	-	-	-	-	-	**1230**	-	-
Total Organic Carbon (TOC) - Rep2	-	-	-	**1440**	-	-	-	-	-	-	-	**1450**	-	-
Volatile Organic Compounds (mg/kg)														
Benzene	-	-	-	-	ND (0.0011)	**0.00018 J**	**0.00016 J**	-	**0.1 J**	**0.2 J**	ND (0.001)	ND (0.0012)	ND (0.0017)	ND (0.0013)
Chlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	**0.13 J**	**35**	**0.064**	**0.0037**	ND (0.0011)	-	**0.0025**	**0.011 J**	-	-	**0.0017**	**0.0012**	-	-
Vinyl chloride	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLP Volatile Organic Compounds (ug/L)														
Benzene	-	-	-	-	-	-	-	-	**2.7**	**3**	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	**1.1**	**260**	**2.6**	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Results in **bold** were detected.
2. ND - Not detected above the reporting limit
3. J - Estimated result

Supplemental Borings and Data



LEGEND

- PROPERTY LINE
- FENCE
- WATER BODY
- 130 GROUND ELEVATION CONTOUR (1FT.)
- 2016 SUPPLEMENTAL SOIL BORING LOCATIONS

NOTES:

1. SITE PLAN BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, LS, DATED NOVEMBER 20, 2002, REVISED TO 10 JULY 2015.

N

0 150 300
SCALE IN FEET

HALEY ALDRICH

REMEDIAL ACTION REPORT ADDENDUM
RACER TRUST - EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

2016 SUPPLEMENTAL SOIL BORING LOCATIONS

SCALE: AS SHOWN
APRIL 2017

FIGURE 4

POSTOLOWSKI, KEVIN Printed: 4/27/2017 11:22 AM Layout: FIG 4
V:\PROJECTS\70613\GLOBAL\CAD\DRAWINGS\2017\70613_821_0002_SPLP_SOIL_BORINGS.DWG

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR 2016 SUPPLEMENTAL BORINGS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location	Sample Name	Sample Date	Sample Depth (bgs)	SDG	Arsenic (mg/kg)	Trichloroethene (mg/kg)
SB-C8-EX1A	SB-C8-EX1A-1027-1424	10/27/2016	2 - 2.5 (ft)	L1634792	-	**0.00025 J**
SB-C8-EX1A	SB-C8-EX1A-1027-1430	10/27/2016	3 - 3.5 (ft)	L1634840	-	**0.0045**
SB-C8-EX1B	SB-C8-EX1B-1027-1440	10/27/2016	2 - 2.5 (ft)	L1634840	-	**0.0016**
SB-C8-EX1B	SB-C8-EX1B-1027-1515	10/27/2016	3 - 3.5 (ft)	L1634792	-	**0.015**
SB-C8-EX1C	SB-C8-EX1C-1027-1518	10/27/2016	2 - 2.5 (ft)	L1634840	-	**0.0038**
SB-C8-EX1C	SB-C8-EX1C-1027-1521	10/27/2016	3 - 3.5 (ft)	L1634792	-	**0.00048 J**
SB-C8-EX1D	SB-C8-EX1D-1027-1505	10/27/2016	3 - 3.5 (ft)	L1634792	-	**0.019**
SB-F10-EX1A	SB-F10-EX1A-1027-1635	10/27/2016	1.5 - 2 (ft)	L1634840	-	**0.0054**
SB-F10-EX1B	SB-E10-EX1B-1027-1600	10/27/2016	1.5 - 2 (ft)	L1634792	-	**0.0059**
SB-F10-EX1B	SB-F10-EX1B-1027-1605	10/27/2016	2.5 - 3 (ft)	L1634840	-	**0.084**
SB-F10-EX1C	SB-F10-EX1C-1027-1540	10/27/2016	1.5 - 2 (ft)	L1634840	-	ND (0.00096)
SB-F10-EX1C	SB-F10-EX1C-1027-1545	10/27/2016	2.5 - 3 (ft)	L1634840	-	ND (0.0011)
SB-F10-EX1D	SB-F10-EX1D-1027-1610	10/27/2016	2.5 - 3 (ft)	L1634840	-	**0.015**
B7-2-EX1A	B7-2-EX1A-1027-1031	10/27/2016	0 - 0.5 (ft)	L1634792	**14**	-
B7-2-EX1A	B7-2-EX1A-1027-1036	10/27/2016	1.5 - 2 (ft)	L1634839	**19**	-
B7-2-EX1B	B7-2-EX1A-1027-1106	10/27/2016	0 - 0.5 (ft)	L1634839	**28**	-
B7-2-EX1B	B7-2-EX1B-1027-1115	10/27/2016	1.5 - 2 (ft)	L1634839	**6.6**	-
B7-2-EX1C	B7-2-EX1C-1027-1019	10/27/2016	0 - 0.5 (ft)	L1634839	**11**	-
B7-2-EX1C	B7-2-EX1C-1027-1021	10/27/2016	1.5 - 2 (ft)	L1634839	**20**	-
CE-1-102-EX1A	CEI-102-EX1A-1027-1151	10/27/2016	0 - 0.5 (ft)	L1634792	**6.9**	-
CE-1-102-EX1A	CEI-102-EX1A-1027-1200	10/27/2016	1.5 - 2 (ft)	L1634839	**3.3**	-
SB-9-SO-8-A-EX1A	SB-9-SO-8-A-EX1A-1026-1657	10/26/2016	0 - 0.5 (ft)	L1634605	**15**	-
SB-9-SO-8-A-EX1A	SB-9-SO-8-A-EX1A-1026-1700	10/26/2016	1.5 - 2 (ft)	L1634605	**34**	-
SB-9-SO-8-A-EX1B	SB-9-SO-8-A-EX1B-1026-1630	10/26/2016	0.5 - 1 (ft)	L1634605	**8.6**	-
SB-9-SO-8-A-EX1B	SB-9-SO-8-A-EX1B-1026-1646	10/26/2016	1.3 - 1.5 (ft)	L1634605	**6.5**	-
SB-9-SO-8-A-EX1C	SB-9-SO-8-A-EX1C-1026-1710	10/26/2016	0 - 0.5 (ft)	L1634605	**250**	-
SB-9-SO-8-A-EX1C	SB-9-SO-8-A-EX1C-1026-1725	10/26/2016	1.5 - 2 (ft)	L1634605	**8.2**	-
SB-9-SO-8-A-EX1D	SB-9-SO-8-A-EX1D-1027-0919	10/27/2016	0 - 0.5 (ft)	L1634792	**7**	-
SB-9-SO-8-A-EX1D	SB-9-SO-8-A-EX1D-1027-0921	10/27/2016	1.5 - 2 (ft)	L1634839	**6**	-
SB-9-SO-8-A-EX1E	SB-9-SO-8-A-EX1E-1026-1605	10/26/2016	1.5 - 2 (ft)	L1634605	**4.2**	-
SB-9-SO-8-A-EX1G	SB-9-SO-8-A-EX1G-1026-1545	10/26/2016	1.5 - 2 (ft)	L1634605	**9.1**	-
SB-AOC09-13-104-EX1A	SB-AOC09-2013-104-EX1A-1026-0953	10/26/2016	0 - 0.5 (ft)	L1634605	**43**	-
SB-AOC09-13-104-EX1A	SB-AOC09-2013-104-EX1A-1026-0956	10/26/2016	1.5 - 2 (ft)	L1634605	**220**	-
SB-AOC09-13-104-EX1B	SB-AOC09-2013-104-EX1B-1026-1022	10/26/2016	0 - 0.5 (ft)	L1634605	**16**	-
SB-AOC09-13-104-EX1B	SB-AOC09-2013-104-EX1B-1026-1027	10/26/2016	1.5 - 2 (ft)	L1634605	**6.4**	-
SB-AOC09-13-104-EX1C	SB-AOC09-2013-104-EX1C-1026-1201	10/26/2016	0 - 0.5 (ft)	L1634605	**60**	-
SB-AOC09-13-104-EX1C	SB-AOC09-2013-104-EX1C-1026-1205	10/26/2016	1.5 - 2 (ft)	L1634605	**6.4**	-
SB-AOC09-13-104-EX1D	SB-AOC09-2013-EX1D-1026-1109	10/26/2016	0 - 0.5 (ft)	L1634605	**12**	-
SB-AOC09-13-104-EX1D	SB-AOC09-2013-104-EX1D-1026-1111	10/26/2016	1.5 - 2 (ft)	L1634605	**4.7**	-
SB-AOC09-13-104-EX1E	SB-AOC09-2013-104-EX1E-1026-1121	10/26/2016	0 - 0.5 (ft)	L1634605	**21**	-
SB-AOC09-13-104-EX1E	SB-AOC09-2013-104-EX1E-1026-1130	10/26/2016	1.5 - 2 (ft)	L1634605	**4.1**	-

Notes:

1. Results in **bold** were detected.
2. ND - Not detected above the reporting limit.

Boring Logs

HALEY & ALDRICH

TEST BORING REPORT

Boring No. B3-4-200

Project 2012 Supplemental Soil Borings-Ewing Industrial Land , Trenton NJ
Client RACER Trust
Contractor EPI

File No. 70613-702
Sheet No. 1 of 1
Start April 23, 2012
Finish April 23, 2012
Driller J. Abel
H&A Rep. D. Mukherjee
Elevation Datum NGVD
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type		G		Rig Make & Model: Geoprobe 6620 DT
				Bit Type:
Inside Diameter (in.)			-	Drill Mud: None
Hammer Weight (lb)			-	Casing:
				Hoist/Hammer:
Hammer Fall (in.)			-	PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0		G1 30	0.0 5.0	0.5		CONCRETE
					SM	Black, silty SAND with gravel (SM), no odor, moist.
				4.5		Brown, silty SAND (SM), no odor, moist.
5		G2 36	5.0 10.0			
				8.5	ML	Brown, sandy SILT (ML), no odor, moist.
10				10.0		BOTTOM OF EXPLORATION AT 10 FEET

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Split Spoon Sample

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10
Rock Cored (ft) 0
Samples 2G

Boring No. B3-4-200

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

†**Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TEST BORING-07-1 HA-LIB07-1-CLE2.GLB HA-TB+CORE+WELL-07-1.GDT G:\PROJECTS\70613\BORING LOGS\GINT\70613-702.GPJ Nov 20, 13

HALEY & ALDRICH

TEST BORING REPORT

Boring No. B6-201

Project 2012 Supplemental Soil Borings-Ewing Industrial Land , Trenton NJ
Client RACER Trust
Contractor EPI

File No. 70613-702
Sheet No. 1 of 1
Start April 23, 2012
Finish April 23, 2012
Driller J. Abel
H&A Rep. D. Mukherjee
Elevation
Datum NGVD
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G		Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)	-	-	-	Bit Type:
Hammer Weight (lb)	-	-	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0		G1 32	0.0 5.0	0.5		CONCRETE
				1.0	SM	Black, silty SAND (SM), no odor, moist.
					SM	Yellow-brown, silty SAND (SM), no odor, moist.
				4.0		Brown, silty SAND (SM), no odor, more moist.
5		G2 40	5.0 10.0			
				8.5	ML	Brown, sandy SILT (ML), no odor, moist.
10				10.0		BOTTOM OF EXPLORATION AT 10 FEET

Notes:
VOC, TIS, SPLP at 0.5 - 1 feet
VOCS/DUP 0002 at 3.5 - 4 feet
VOC, TIS, SPLP at 9.5 - 10 feet

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Split Spoon Sample

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10
Rock Cored (ft) 0
Samples 2G

Boring No. B6-201

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

†**Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TEST BORING-07-1 HA-LIB07-1-CLE2.GLB HA-TB+CORE+WELL-07-1.GDT G:\PROJECTS\70613\BORING LOGS\GINT\70613-702.GPJ Nov 20, 13

HALEY & ALDRICH

TEST BORING REPORT

Boring No. GS08-200

Project 2012 Supplemental Soil Borings-Ewing Industrial Land , Trenton NJ
Client RACER Trust
Contractor EPI

File No. 70613
Sheet No. 1 of 1
Start April 24, 2012
Finish April 24, 2012
Driller J. Abel
H&A Rep. D. Mukherjee
Elevation
Datum NGVD
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G		Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)	-	-	-	Bit Type:
Hammer Weight (lb)	-	-	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	PID	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0						GRASS / GRAVEL										
	0.0	G1 36	0.0 5.0	0.5 1.0	SM	Brown, silty SAND (SM), no odor, moist. Red-brown, silty SAND with gravel (SM), root fragments, moist.										
5		G2 38	5.0 10.0													
				8.0		Yellow-brown, silty SAND (SM), no odor, moist, wet at 8 feet.										
10		G3 46	10.0 15.0													
				11.5	ML	Dark brown, sandy SILT with clay (ML), no odor, moist.										
15				15.0		BOTTOM OF EXPLORATION AT 15 FEET Notes: VOC, TIS, SPLP at 0.5 - 1.0 feet VOC at 8.5 - 9.0 feet VOC, TIS, SPLP at 11.5 - 12.0 feet Refusal at 5.5 feet. Tried 2-3 borings. Moved location.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Split Spoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 15
Rock Cored (ft) 0
Samples 3G

Boring No. GS08-200

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

†**Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A TEST BORING WITH PID COLUMN HA-LIB07-1-CLE2.GLB HA-TB+CORE+WELL-07-1.GDT G:\PROJECTS\70613\BORING LOGS\GINT\70613-702.GPJ Nov 11, 13

HALEY & ALDRICH

TEST BORING REPORT

Boring No. GS08-200
File No. 70613
Sheet No. 2 of 1

Depth (ft)	PID	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
						New coordinates.										

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. GS08-200

H&A TEST BORING WITH PID COLUMN HA-LIB07-1-CLE2.GLB HA-TB+CORE+WELL-07-1.GDT G:\PROJECTS\70613\BORING LOGS\GINT\70613-702.GPJ Nov 11, 13

HALEY & ALDRICH

TEST BORING REPORT

Boring No. B9-16-200

Project 2012 Supplemental Soil Borings-Ewing Industrial Land , Trenton NJ
Client RACER Trust
Contractor EPI

File No. 70613
Sheet No. 1 of 1
Start April 25, 2012
Finish April 25, 2012
Driller J. Abel
H&A Rep. D. Mukherjee
Elevation
Datum NGVD
Location

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type		G		Rig Make & Model: Geoprobe 6620 DT
				Bit Type:
Inside Diameter (in.)			-	Drill Mud: None
Hammer Weight (lb)			-	Casing:
				Hoist/Hammer:
Hammer Fall (in.)			-	PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0		G1 50	0.0 5.0	0.5	SM	(SM), Dark brown, silty SAND (SM), no odor, moist. Presence of plant roots.
					SM	(SM), Tan-brown, silty SAND (SM), with gravel, no odor, moist.
				2.0	SM	(SM), Brown to dark brown, silty SAND with gravel (SM), mps=1-2 inches, no odor, moist.
5		G2 49	5.0 10.0			
				7.5	ML	(ML), Gray, sandy SILT (ML), no odor, wet from 7.5 feet.
10				10.0		BOTTOM OF EXPLORATION AT 10 FEET

Notes:
VOC, SVOC, TIS, SPLP at 0.5 - 1.0 feet
VOC, SVOC at 1.5 - 3.0 feet
VOC, SVOC, TIS, (SPLP) at 5.0 - 5.5 feet (DUP/ MS/MSD)
Included SPLP in DUP
and VOC in MS/MS

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Split Spoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10
Rock Cored (ft) 0
Samples 3G

Boring No. B9-16-200

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

†**Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TEST BORING-IPAC-07-1 HA-LIB07-1-CLE2.GLB HA-TB+CORE+WELL-IPAC-07-1.GDT G:\PROJECTS\70613\BORING LOGS\GINT\70613-702.GPJ Nov 11, 13

HALEY& ALDRICH

GEOPROBE REPORT

Boring No. PL05-200

Project Additional Soil Investigations, Trenton, New Jersey
Client RACER Trust
Contractor

File No. 70613
Sheet No. 1 of 1
Start April 25, 2012
Finish April 25, 2012
Driller J. Abel
H&A Rep. D. Mukherjee
Elevation
Datum NGVD
Location

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type		G		Rig Make & Model: Geoprobe 6620 DT
				Bit Type:
Inside Diameter (in.)			-	Drill Mud: None
Hammer Weight (lb)			-	Casing:
				Hoist/Hammer:
Hammer Fall (in.)			-	PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS* Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, natural grain size and artificial component percentage estimates, manual test properties, structure, odors, moisture, other descriptions and observations GEOLOGIC INTERPRETATION)	PID Readings (ppm) (sample/bkgd)
0		G1 46	0.0 5.0	0.5		CONCRETE / GRAVEL SUB-BASE	
				1.0	SM	Brown, silty SAND (SM), no odor, moist.	
					SM	Yellow-brown, silty SAND (SM), no odor.	
						Becomes saturated at 4 feet.	
5				5.0		BOTTOM OF EXPLORATION AT 5 FEET	

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Component Percentage Estimates	
Term	Range
adjective modifier	20% - 50%
and	20% - 50%
some	20% - 33%
little	10% - 20%
trace	5% - 10%
with	present

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary

Overburden (ft) 5
Rock Cored (ft) 0
Samples 1G

Boring No. PL05-200

Sampler Type: S - Split Spoon Sampler U - Undisturbed Tube Sampler T - Thin Wall Tube Sampler

***NOTE: USCS Group Symbols based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.**

NOTE: Visual-Manual Identification and Description based upon Haley & Aldrich OP2001A - Field Practice for Soil Identification and Description.

GEOPROBE REPORT HA-LIB08-BETA.GLB HA-TB+CORE+WELL-08.GDT L:\OHIO OFFICES\CLEVELAND\70613-702.GPJ Dec 6, 13

HALEY& ALDRICH

GEOPROBE REPORT

Boring No. PL05-201

Project Additional Soil Investigations, Trenton, New Jersey
Client RACER Trust
Contractor

File No. 70613
Sheet No. 1 of 1
Start April 25, 2012
Finish April 25, 2012
Driller J. Abel
H&A Rep. D. Mukherjee
Elevation
Datum NGVD
Location

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type		G		Rig Make & Model: Geoprobe 6620 DT
				Bit Type:
Inside Diameter (in.)			-	Drill Mud: None
Hammer Weight (lb)			-	Casing:
				Hoist/Hammer:
Hammer Fall (in.)			-	PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS* Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, natural grain size and artificial component percentage estimates, manual test properties, structure, odors, moisture, other descriptions and observations GEOLOGIC INTERPRETATION)	PID Readings (ppm) (sample/bkgd)
0		G1 49	0.0 5.0	0.5		CONCRETE / GRAVEL SUB-BASE	
				1.0	SM	Brown, silty SAND (SM), no odor, moist.	
					SM	Yellow-brown, silty SAND (SM), no odor	
						Becomes saturated at 4 feet.	
5				5.0		BOTTOM OF EXPLORATION AT 5 FEET	

Notes:
VOC, SVOC, TIS, SPLP at 0.5 - 1.0 feet
VOC, SVOC, TIS, SPLP at 2.5 - 3.0 feet

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Component Percentage Estimates	
Term	Range
adjective modifier	20% - 50%
and	20% - 50%
some	20% - 33%
little	10% - 20%
trace	5% - 10%
with	present

Well Diagram: Riser Pipe, Screen, Filter Sand, Cuttings, Grout, Concrete, Bentonite Seal

Summary

Overburden (ft)	5
Rock Cored (ft)	0
Samples	1G

Boring No. PL05-201

Sampler Type: S - Split Spoon Sampler U - Undisturbed Tube Sampler T - Thin Wall Tube Sampler

***NOTE: USCS Group Symbols based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.**

NOTE: Visual-Manual Identification and Description based upon Haley & Aldrich OP2001A - Field Practice for Soil Identification and Description.

GEOPROBE REPORT HA-LIB08-BETA.GLB HA-TB+CORE+WELL-08.GDT L:\OHIO OFFICES\CLEVELAND\70613-702.GPJ Dec 6, 13

HALEY& ALDRICH

GEOPROBE REPORT

Boring No. PL05-202

Project Additional Soil Investigations, Trenton, New Jersey
Client RACER Trust
Contractor

File No. 70613
Sheet No. 1 of 1
Start April 25, 2012
Finish April 25, 2012
Driller J. Abel
H&A Rep. D. Mukherjee
Elevation
Datum NGVD
Location

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type		G		Rig Make & Model: Geoprobe 6620 DT
				Bit Type:
Inside Diameter (in.)			-	Drill Mud: None
Hammer Weight (lb)			-	Casing:
				Hoist/Hammer:
Hammer Fall (in.)			-	PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS* Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, natural grain size and artificial component percentage estimates, manual test properties, structure, odors, moisture, other descriptions and observations GEOLOGIC INTERPRETATION)	PID Readings (ppm) (sample/bkgd)
0		G1 50	0.0 5.0	0.5		GRAVEL, PLANT ROOTS	
				1.0	SM	Brown, silty SAND with gravel (SM), no odor, moist.	
				2.0	SM	Gray-brown, sandy SILT (SM), no odor, moist.	
					ML SM	Brown, silty SAND (SM), no odor, wet at 3-5 feet.	
				4.5			
5				5.0		Red-brown, silty SAND with gravel (SM), no odor, wet.	
						BOTTOM OF EXPLORATION AT 5 FEET	

Notes:
VOC, SVOC, TIS, SPLP at 0.5 - 1.0 feet
VOC, SVOC, TIS, SPLP at 2.5 - 3.0 feet

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Component Percentage Estimates

Term	Range
adjective modifier	20% - 50%
and	20% - 50%
some	20% - 33%
little	10% - 20%
trace	5% - 10%
with	present

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 5
Rock Cored (ft) 0
Samples 1G

Boring No. PL05-202

Sampler Type: S - Split Spoon Sampler U - Undisturbed Tube Sampler T - Thin Wall Tube Sampler

***NOTE: USCS Group Symbols based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.**

NOTE: Visual-Manual Identification and Description based upon Haley & Aldrich OP2001A - Field Practice for Soil Identification and Description.

GEOPROBE REPORT HA-LIB08-BETA.GLB HA-TB+CORE+WELL-08.GDT \\CLEVCOMMONPROJECTS\70613\BORING LOGS\GINT\70613-702.GPJ Dec 9, 13

HALEY& ALDRICH

TEST BORING REPORT

Boring No. SB-11-S0-200

Project 2012 Supplemental Soil Borings-Ewing Industrial Land , Trenton NJ
Client RACER Trust
Contractor EPI

File No. 70613
Sheet No. 1 of 1
Start April 25, 2012
Finish April 25, 2012
Driller J. Abel
H&A Rep. D. Mukherjee
Elevation
Datum NGVD
Location

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type		G		Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)			-	Bit Type:
Hammer Weight (lb)			-	Drill Mud: None
Hammer Fall (in.)			-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0		G1 41	0.0 5.0	0.5	SM	(SM), Dark brown, silty SAND with gravel (SM), no odor, moist, plant roots.
					ML	(ML), Yellow-brown, sandy SILT (ML), no odor, moist.
				4.0	SM	(SM), Red-brown, silty SAND with gravel (SM), crushed rock fragments, no odor, moist.
5				5.0		BOTTOM OF EXPLORATION AT 5 FEET.

Notes:
SVOC, TIS, PCBs, SPLP at 0.5 - 1.0 feet
SVOC, TIS, PCBs, SPLP at 3.5 - 4.0 feet

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Split Spoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	5
Rock Cored (ft)	0
Samples	1G

Boring No. SB-11-S0-200

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

†**Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TEST BORING-IPAC-07-1 HA-LIB07-1-CLE2.GLB HA-TB+CORE+WELL-IPAC-07-1.GDT G:\PROJECTS\70613\BORING LOGS\GINT\70613-702.GPJ Nov 11, 13

HALEY & ALDRICH

TEST BORING REPORT

Boring No. SB-11-S0-201

Project 2012 Supplemental Soil Borings-Ewing Industrial Land , Trenton NJ
Client RACER Trust
Contractor EPI

File No. 70613
Sheet No. 1 of 1
Start April 25, 2012
Finish April 25, 2012
Driller J. Abel
H&A Rep. D. Mukherjee
Elevation
Datum NGVD
Location

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type		G		Rig Make & Model: Geoprobe 6620 DT
				Bit Type:
Inside Diameter (in.)			-	Drill Mud: None
Hammer Weight (lb)			-	Casing:
				Hoist/Hammer:
Hammer Fall (in.)			-	PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0		G1 53	0.0 5.0		SM	(SM), Dark brown, silty SAND with gravel (SM), no odor, moist. Presence of plant roots.
				1.5		Red-brown, silty SAND with gravel (SM), no odor, moist.
5				5.0		BOTTOM OF EXPLORATION AT 5 FEET

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Split Spoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5
Rock Cored (ft) 0
Samples 1G

Boring No. SB-11-S0-201

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

†**Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TEST BORING-IPAC-07-1 HA-LIB07-1-CLE2.GLB HA-TB+CORE+WELL-IPAC-07-1.GDT G:\PROJECTS\70613\BORING LOGS\GINT\70613-702.GPJ Nov 11, 13

HALEY& ALDRICH

GEOPROBE REPORT

Boring No. TP 9-2-202

Project Additional Soil Investigations, Trenton, New Jersey
Client RACER Trust
Contractor

File No. 70613
Sheet No. 1 of 1
Start April 26, 2012
Finish April 26, 2012
Driller J. Abel
H&A Rep. D. Mukherjee
Elevation
Datum NGVD
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G		Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)	-	-	-	Bit Type:
Hammer Weight (lb)	-	-	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS* Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, natural grain size and artificial component percentage estimates, manual test properties, structure, odors, moisture, other descriptions and observations GEOLOGIC INTERPRETATION)	PID Readings (ppm) (sample/bkgd)
0		G1 45	0.0 5.0	0.5		GRAVEL	1.2
					SM	Black, silty SAND with gravel (SM), strong paint-like chemical odor, moist.	6.8 209 143
				2.0		Gray-brown, silty SAND with gravel (SM), chemical odor, moist.	112 98 73 26 20 28
5		G2 47	5.0 10.0				3.1 2.9
				6.0		Unknown white material, pasty in texture.	0.8
				6.5	SM	Gray, silty SAND (SM), no odor, moist.	2.1 4.6 4.7 4.8 2.7 2.5
10				10.0		BOTTOM OF EXPLORATION AT 10 FEET	3.1

Notes:
Took two cores to get sample volume.

VOC, SVOC, PCBs at 0.5 -1 feet
VOC, SVOC, PCBs, TIS, SPLP at 2.5 - 3.0 feet
VOC, SVOC, PCBs, TIS, SPLP at 9.0 - 9.5 feet

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Component Percentage Estimates

Term	Range
adjective modifier	20% - 50%
and	20% - 50%
some	20% - 33%
little	10% - 20%
trace	5% - 10%
with	present

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 10
Rock Cored (ft) 0
Samples 2G

Boring No. TP 9-2-202

Sampler Type: S - Split Spoon Sampler U - Undisturbed Tube Sampler T - Thin Wall Tube Sampler

***NOTE: USCS Group Symbols based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.**

NOTE: Visual-Manual Identification and Description based upon Haley & Aldrich OP2001A - Field Practice for Soil Identification and Description.

GEOPROBE REPORT HA-LIB08-BETA.GLB HA-TB+CORE+WELL-08.GDT L:\OHIO OFFICES\CLEVELAND\70613-702.GPJ Dec 6, 13

HALEY& ALDRICH

GEOPROBE REPORT

Boring No. TP 9-3-203

Project Additional Soil Investigations, Trenton, New Jersey
Client RACER Trust
Contractor

File No. 70613
Sheet No. 1 of 1
Start April 27, 2012
Finish April 27, 2012
Driller J. Abel
H&A Rep. D. Mukherjee
Elevation
Datum NGVD
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G		Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)	-	-	-	Bit Type:
Hammer Weight (lb)	-	-	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS* Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, natural grain size and artificial component percentage estimates, manual test properties, structure, odors, moisture, other descriptions and observations GEOLOGIC INTERPRETATION)	PID Readings (ppm) (sample/bkgd)
0		G1 37	0.0 5.0	0.5		GRAVEL.	0.0
					SM	Brown, silty SAND with gravel (SM), chemical-like odor, moist.	5.9
							12.7
							23.1
							18.2
							15.1
							3.2
							1.7
							0.0
5							0.0
		G2 48	5.0 10.0	5.5			0.0
						Similar to above except black in color.	
				7.0	SM	Gray-brown, silty SAND (SM), no odor, moist.	
10				10.0		BOTTOM OF EXPLORATION AT 10 FEET	

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Component Percentage Estimates	
Term	Range
adjective modifier	20% - 50%
and	20% - 50%
some	20% - 33%
little	10% - 20%
trace	5% - 10%
with	present

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 10
Rock Cored (ft) 0
Samples 2G

Boring No. TP 9-3-203

Sampler Type: S - Split Spoon Sampler U - Undisturbed Tube Sampler T - Thin Wall Tube Sampler

***NOTE: USCS Group Symbols based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.**

NOTE: Visual-Manual Identification and Description based upon Haley & Aldrich OP2001A - Field Practice for Soil Identification and Description.

GEOPROBE REPORT HA-LIB08-BETA.GLB HA-TB+CORE+WELL-08.GDT L:\OHIO OFFICES\CLEVELAND\70613-702.GPJ Dec 6, 13

TEST BORING REPORT

Boring No. 268-2R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 12 September 2016
Finish 12 September 2016
Driller
H&A Rep. T. Dennison
Elevation Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 29/60	0.0 5.0	0.6	0.5		CONCRETE Brown silty SAND with fine gravel, no odor, dry, gravel throughout
			6.3	4.5		Red-brown silty CLAY with gravel
5	G2 51/60	5.0 10.0	1.9			
			1.7			
			1.7			Similar to above
10			0.7	10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-0912-16-1530 7.5-8.0 ft; grain-size and TOC
4479-091216-1520 3.25-3.75 ft
4479-091216-1522 6.5-7.0 ft
4479-091216-1524 7.0-7.5 ft

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. 268-2R

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B7-3R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 13 September 2016
Finish 13 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 22/60	0.0 5.0	0.0	0.5		CONCRETE
			3.9			Red-brown silty CLAY with sand and gravel
				3.0		Gray-brown silty CLAY, brown mottling, gravel and sand present, strong odor, wet
			0.0			
5	G2 25/60	5.0 10.0	3.4			Similar to above at 0.5 ft
			13.9			
			0.5			At 7.0 ft, gravel
			0.2			At 8.0 ft, similar to above at 3.0 ft, moist
			0.6			
10	G3 34/60	10.0 15.0	0.0			Brown silty CLAY, mps <5 mm, black at 10.5 ft
			0.0			
			0.0			Similar to above
			0.0			At 13.0 ft, color change to red-brown
			0.0			
15			0.0	15.0		BOTTOM OF EXPLORATION 15.0 ft

Notes:

Samples:
4479-091316-1115 3.5-4.0 ft; nickel
4479-091316-1120 10.0-10.5 ft; nickel

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 15.0
Rock Cored (ft) --
Samples 3G

Boring No. B7-3R

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B7-5R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 13 September 2016
Finish 13 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 34/60	0.0 5.0	115.2	0.5		CONCRETE
						GRAVEL
			15.9	1.5		Red-brown silty CLAY with gravel, strong fuel-like odor, moist
			6.8			At 3.0 ft, black sand-slag-like material
			5.5			Similar to above at 1.5 ft, slight odor
5			4.0	5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091316-1525 2.5-3.0 ft; TCE

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. B7-5R

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B7-9

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0			3.6	0.5		TOPSOIL/ORGANICS
				0.5		Dark brown sandy SILT with gravel, slight odor, dry
						BOTTOM OF EXPLORATION 0.5 ft
5						

Notes:

Samples:
4479-091516-1440 0.0-0.5 ft; arsenic

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 0.5
Rock Cored (ft) --
Samples --

Boring No. B7-9

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B8-4-100

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 26/60	0.0 5.0	5.6	0.5		TOPSOIL/ORGANICS
			6.3			Brown sandy SILT with gravel, no odor, dry, increasing sand content with depth
			0.8			
5	G2	5.0 10.0	15.0			
			66.1	6.5		
			28.1			Gray CLAY with fill material (fabric, fibrous material, wood, gravel, grass), strong odor, wet
			53.1			
			27			
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091516-0840 8.0-8.5 ft; benzene and chlorobenzene

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. B8-4-100

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B8-4-102

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 40/60	0.0 5.0	1.1	0.5		TOPSOIL/ORGANICS
			2.5			Brown silty SAND, dry, gravel and sand
						- FILL-
			6.1	3.5		Gray CLAY with sand, moist, 3 in. red gravel
			237.1	4.5		Plastic paper layering with gray fine grained material (rubbery), strong odor, 2 in. thick
5	G2 28/60	5.0 10.0	165			Gray CLAY with fill material (thick glass, fabrics, gravel)
						Gray CLAY, similar to above, fibrous, orange material, wood, glass
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-0915-16-0855 8.0-8.5 ft; benzene and chlorobenzene

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. B8-4-102

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B8-4R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 45/60	0.0 5.0	0.5	0.5		TOPSOIL/ORGANICS
			1.2			Brown silty SAND, no odor, dry, abundant gravel, trace brick, coarse sand, concrete
				3.0		Brown fine silty SAND, mps fine sand, slight odor, moist
			1.6			
5	G2 35/60	5.0 10.0	20	5.0		Fill material - fabrics, gravel, sand, trace brick
			1.6			
			121.4	6.5		Gray CLAY with fill material, strong odor, wet
			117.6			
			91.2			
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091516-0810 6.0-8.0 ft, nickel and grain-size

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. B8-4R

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B8-8-1

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 14 September 2016
Finish 14 September 2016
Driller
H&A Rep. T. Dennison
Elevation Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 46/60	0.0 5.0	0.0	0.5		TOPSOIL/ORGANICS
			0.0			Brown sandy SILT with gravel, no odor, dry
			0.8	4.0		Dark gray/brown silty SAND, strong odor, moist
5	G2 27/60	5.0 10.0	21.4			Color change to brown
			4.6			
			2.1			At 8.0 ft, wet
			2.1	9.5		Fill material, strong odor, moist (wood and fibrous material)
10	G3 32/60	10.0 15.0	201.2			Dark gray-brown silty SAND with gravel, saturated at 10.5 to 14.0 ft
			29.9			
			8.8			At 12.0 ft, dark gray CLAY
			4.0			
			4.2			Gray CLAY, mps <5 mm, slight odor, moist
15				15.0		BOTTOM OF EXPLORATION 15.0 FT

Notes:

Samples:
4479-091416-1410 7.75-8.25 ft; chlorobenzene and nickel
4479-091416-1420 12.0-12.5 ft; chlorobenzene and nickel

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 15.0
Rock Cored (ft) --
Samples 3G

Boring No. B8-8-1

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B8-8-2-100

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 14 September 2016
Finish 14 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 58/60	0.0 5.0	0.0			Brown SILT, trace gravel and sand, dry
			0.0			At 2.0 ft, color change to yellow-brown
			5.8			At 4.0 ft, color change to brown, bright blue (turquoise) starting at 4.0 ft, slight odor
5	G2	5.0 10.0	86.6	5.0		Brown silty SAND, dry
			6.2			
			11.7	7.0		Fill material - gray clayey fibrous material, strong odor, wet
			204.1			
			344.5			
10			358.1	9.8		WOOD
				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091416-1210 7.75-8.25 ft; chlorobenzene
4479-091416-1215 9.5-10.0 ft; chlorobenzene

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. B8-8-2-100

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\706139814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\706139-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B8-8-2-101

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 14 September 2016
Finish 14 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 52/60	0.0 5.0	1.1	0.5		TOPSOIL/ORGANICS
			1.5			Brown sandy SILT, some gravel, slight odor, blue staining, increasing sand with depth
			2.5			
			24.6			
			30.8			
5	G2 41/60	5.0 10.0	101.2			
			96.2			
			326	7.0		Fill material - gray fibrous, paint thinner-like odor, wood, gravel, wet
			215.1			
			96.3			
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091416-1340 7.75-8.25 ft; chlorobenzene

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 6.0
Rock Cored (ft) --
Samples 2G

Boring No. B8-8-2-101

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B8-8-2-102

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 14 September 2016
Finish 14 September 2016
Driller
H&A Rep. T. Dennison
Elevation Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 58/60	0.0 5.0	0.9			Light brown silty SAND with gravel, mps coarse sand, no odor, dry
			0.1			
			0.0			
			1.6	3.0		Brown SILT with gravel, slight odor, moist, glass, gray staining
			15.4			
5	G2 33/60	5.0 10.0	2.8			Similar to above
			2.4			At 6.0 ft, silty sand
			166	7.0		Fill material - gray with orange and gray fibrous material, glass, wood, strong odor, moist
			330			At 8.0 ft, wet
			46.5			
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091416-1130 7.75-8.25; chlorobenzene
4479-091416-1145 9.5-10.0 ft; chlorobenzene and TCE

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. B8-8-2-102

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B9-16

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0			2.0	0.5		TOPSOIL/ORGANICS
				0.5		Brown silty SAND with gravel, no odor, dry
						BOTTOM OF EXPLORATION 0.5 FT
						Notes:
						Samples: 4479-091516-1300 0.0-0.5 ft; arsenic
5						

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 0.5
Rock Cored (ft) --
Samples --
Boring No. B9-16

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B9-16-100

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0			6.7	0.5		TOPSOIL/ORGANICS
				0.5		Brown silty SAND with gravel, no odor, dry
						BOTTOM OF EXPLORATION 0.5 ft
						Notes:
						Samples: 4479-091516-1305 0.0-0.5 ft; arsenic
5						

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 0.5
Rock Cored (ft) --
Samples --

Boring No. B9-16-100

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B9-2

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 16 September 2016
Finish 16 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 55/60	0.0 5.0	0.0	0.5		TOPSOIL/ORGANICS
			0.0			Yellow-brown SILT with sand, trace gravel, no odor, dry
			0.0			
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091616-1140 0.0-0.5 ft; arsenic
4479-091616-1147 2.5-3.0 ft; grain-size and TOC

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. B9-2

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Plasticity**: N - Nonplastic L - Low M - Medium H - High
Toughness: L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B9-2-100

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 16 September 2016
Finish 16 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 55	0.0 5.0	0.0	0.5		TOPSOIL/ORGANICS
			0.0			Yellow-brown SILT with sand, trace gravel, no odor, dry
			0.0			
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091616-1142 0.0-0.5 ft; arsenic
4479-091616-1145 2.5-3.0 ft; arsenic

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. B9-2-100

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Plasticity**: N - Nonplastic L - Low M - Medium H - High
Toughness: L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B9-2-101

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 16 September 2016
Finish 16 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 50/60	0.0 5.0	0.0	0.5		TOPSOIL/ORGANICS
			0.0			Yellow-brown SILT with sand, trace gravel, no odor, dry
			0.0			
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091616-1135 0.0-0.5 ft; arsenic
4479-091616-1138 2.5-3.0 ft; arsenic

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. B9-2-101

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B9-2-103

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 16 September 2016
Finish 16 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 50/60	0.0 5.0	0.0	0.5		TOPSOIL/ORGANICS
			0.0			Yellow-brown SILT with sand, trace gravel, no odor, dry
			0.0			
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091616-1130 0.0-0.5 ft; arsenic
4479-091616-1132 2.5-3.0 ft; arsenic

Note: Located in front of gate in low area.

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. B9-2-103

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. IS05/I305-100R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 13 September 2016
Finish 13 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 32/60	0.0 5.0	10.5	0.5		CONCRETE
			19.3	1.0		Brown silty SAND, mps coarse sand, trace gravel, no odor
				1.5		Black coarse SAND with silt, slight odor
			36.3	2.0		Color change to red-brown
				2.5		Silty CLAY with sand
			38.8	3.0		Color change to black with slag-like material
5				5.0		Red-brown sandy CLAY with gravel, no odor, moist
						BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091316-0915 1.0-1.5 ft; nickel and vinyl chloride
4479-091316-0930 2.5-3.0 ft; vinyl chloride

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. IS05/I305-100R

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. IS05-102R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 13 September 2016
Finish 13 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 29/60	0.0 5.0	0.9	0.5		CONCRETE
			1.7			Brown silty SAND, mps coarse sand, gravel throughout
			3.4			Black coarse silty SAND, slight odor, moist
			0.9			Red-brown sandy SILT with gravel, mps coarse sand, no odor, moist
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091316-0940 1.0-1.5 ft; arsenic and vinyl chloride

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. IS05-102R

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. IS05-103R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 13 September 2016
Finish 13 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 31/60	0.0 5.0	4.0	0.5		CONCRETE
						Black SAND, mps coarse sand, slight odor, moist
			20.1			At 2.5 ft, red-brown silty SAND, strong odor
			6.6			Red-brown silty CLAY, mps <5 mm, weathered rock throughout, no odor, moist
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091316-0850 2.5-3.0; vinyl chloride

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. IS05-103R

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. IS06-103R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 13 September 2016
Finish 13 September 2016
Driller
H&A Rep. T. Dennison
Elevation Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 28/60	0.0 5.0	0.0	0.5		CONCRETE
						Black silty SAND, no odor, moist Brown, trace gravel, slag-like material
			0.0	2.0		Brown SILT with gravel and sand
				2.5		Similar to 0.5 ft
			0.0	3.0		Red-brown silty CLAY with gravel
			0.0			
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091316-1010 1.0-1.5 ft; arsenic and vinyl chloride

Note: Approximate location, GPS-here, slight evidence of past boring.

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. IS06-103R

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. IS06R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 13 September 2016
Finish 13 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 31/60	0.0 5.0	0.8	0.8		CONCRETE
				1.0		Black silty SAND with gravel, mps coarse sand, no odor, moist
			0.2			Brown silty CLAY
				3.5		Red-brown weathered ROCK and SAND
			0.3	4.0		Brown silty SAND, fine grained, wet
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091316-1225 1.0-1.5 ft; arsenic, nickel and vinyl chloride

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. IS06R

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. IS07-103R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 13 September 2016
Finish 13 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 17/60	0.0 5.0	0.0			CONCRETE
			1.9	0.8		Brown silty SAND, gravel throughout, no odor, moist
			10.5			
			11	4.0		Gray-brown CLAY with gray mottling, pink staining at 4.5 ft, wet at 5 ft
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091316-1200 2.5-3.0 ft; arsenic

Note: Low recovery, stepped off two more times to get enough sample.

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. IS07-103R

Field Tests:

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. PL07-01R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start
Finish
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 33/60	0.0 5.0	0.0	0.5		CONCRETE
						Red-brown CLAY with gravel, no odor, moist
			0.0			
			0.0			
			0.0			At 3.5 ft, 2 in. seam of red-brown silty sand
						Color change to brown with gray mottling
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
SPO7-01R 1425 4.5-5.0 ft; metals (nickel)

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. PL07-01R

Field Tests:

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. PL07-107R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start
Finish
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 36/36	0.0 5.0	0.4	0.5		CONCRETE
			0.0			Black silty SAND with gravel, slight odor (0.5 ft thick), wet
			0.0			Red-brown medium dense CLAY with gravel throughout, gray mottling, slight odor
			0.0	3.0		BOTTOM OF EXPLORATION 3.0 FT
5						

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. PL07-107R

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-10-SO-10

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 30/60	0.0 5.0	0.0	0.5		TOPSOIL/ORGANICS/WOOD
			0.0			Brown sandy SILT with gravel, no odor, dry
			0.9			
			99.8	3.0		Similar to above, brick, gravel, moist, more fill
			89.1	3.5		Gray-brown silty CLAY with fill, strong odor, moist
5	G2 34/60	5.0 10.0	94.1	5.0		Fill material - gray clayey, plastic, strong odor, moist/wet
			80.3			At 5.5 ft, wood
			29.7			
			9.5			At 9.0 ft, gray CLAY
			6.2			
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091516-0945 3.0-4.0 ft; chlorobenzene and nickel
4479-091516-1000 4.0-6.0 ft; chlorobenzene and nickel

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-10-SO-10

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-10-SO-10-100

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 29/60	0.0 5.0	4.7	0.5		TOPSOIL/ORGANICS/WOOD
			1.1			Brown silty SAND and ORGANICS, some gravel, no odor, dry
			86.3	3.0		GRAVEL
				3.5		Brown silty CLAY with fill and wood, strong odor, moist
			74.6	4.7		
5	G2 38/60	5.0 10.0	28.7			Similar to above at 3.5 ft, blue staining, moist At 5.5 ft, 2-in. layer of sand
			92.8			
			29.1			
			8.5			
			5.8			
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091516-1020 6.0-6.5 ft; chlorobenzene and TCE

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-10-SO-10-100

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-10-SO-10-103

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1	0.0 5.0	0.5 0.4	0.5		TOPSOIL/ORGANICS/WOOD Brown silty SAND, some gravel and brick fragments, slight odor, dry
			79.0	4.0		Dark gray silty CLAY, trace gravel, strong odor, moist
5	G2	5.0 10.0	65.8 10.1	6.0		At 5.75 ft, 2-in. layer of sand with organics Gray silty CLAY, trace gravel, strong odor, moist, blue staining
			3.8			
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091516-1045 4.5-5.0 ft; chlorobenzene
4479-091516-1055 6.5-7.0 ft; benzene and chlorobenzene

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-10-SO-10-103

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-10-SO-5A

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0				0.2		TOPSOIL/ORGANICS Brown silty SAND, abundant gravel, no odor, dry
				2.0		Similar to above, gravel from 2.0 to 4.0 ft
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091516-1435 2.0-4.0 ft; nickel

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) --
Rock Cored (ft) --
Samples --

Boring No. SB-10-SO-5A

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-10-SO-7

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 60/60	0.0 5.0	0.0	0.5		TOPSOIL/ORGANICS
			0.0			Rusty-brown silty SAND with gravel, no odor, dry
			0.0			
5	G2	5.0 10.0	0.1			
			0.2	7.0		Gray/red CLAY with gravel, slight odor, moist
				7.5		Red-brown weathered ROCK and SAND, no odor, dry
			0.1			
				9.5		Similar to above, moist, more clay
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091516-1340 4.0-5.0 ft; nickel
4479-091516-1345 8.0-10.0 ft; chlorobenzene and nickel

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-10-SO-7

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-10-SO-7-103

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 45/60	0.0 5.0	0.0	0.5		TOPSOIL/ORGANICS
						Rusty-brown silty SAND, medium grained sand, organic odor, gravel throughout, dry
			0.0			
						At 3.0 ft, wood (2 in.)
			0.0			
5	G2	5.0 10.0	1.5	5.5		Similar to above
						Gray-brown CLAY, no odor, moist
			0.0	7.0		Red-brown silty SAND, no odor, dry
			1.9			At 9.0 ft, wet
				9.5		Gray-black silty CLAY, wet
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091516-1330 5.5-6.0 ft; nickel

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-10-SO-7-103

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-7-SO-3-101R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 13 September 2016
Finish 13 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 45/60	0.0 5.0	0.0	0.5		TOPSOIL/ORGANICS
			16.2	1.5		Light brown silty SAND with gravel, no odor, dry
			10.1	2.3		Black coarse SAND, no odor, dry
			14.6	2.5		GRAVEL
				3.0		WOOD, slight odor
			2.1	3.5		Red CLAY with gravel
				4.0		CONCRETE/GRAVEL
5				4.5		Similar to above at 3.0 ft
				5.0		GRAVEL/CONCRETE
						BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091316-1410 3.5-4.0 ft; vinyl chloride

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. SB-7-SO-3-101R

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-7-SO-3R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 13 September 2016
Finish 13 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 38/60	0.0 5.0	0.0			TOPSOIL/ORGANICS
			18.2	0.5		Light brown silty SAND with gravel, no odor, dry
			7.6	1.5		Black coarse SAND, no odor, dry
				2.3		GRAVEL
				2.5		WOOD, slight odor
				3.0		Red CLAY with gravel
			11.1	3.5		CONCRETE/GRAVEL
				4.0		Similar to above at 3.0 ft
5	G2 60/60	5.0 10.0	6.4	4.5		GRAVEL/CONCRETE
			0.6	5.0		
			0.0			At 8.5 ft, blue staining
			0.0			Light brown silty SAND, gravel throughout, slight odor, moist, light blue/teal staining throughout
				9.5		Dark brown/black SILT, trace sand, slight odor, moist
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091316-1435 8.0-10.0 ft; TCE
Total metals - all metals on hold - not rush

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-7-SO-3R

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-7-SO-6R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 13 September 2016
Finish 13 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1	0.0 5.0	0.0	0.5		TOPSOIL/ORGANICS
			0.0			Brown/gray silty SAND with fine gravel, no odor, dry, increasing moisture content with depth
			0.0			
			0.0			
			1.3			At 4.0 ft, red-brown weathered rock, blue staining
						At 4.5 ft, gravel
5				5.0		At 4.75 ft, brown silty CLAY, moist
						BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091316-1500 2.0-4.0 ft; nickel and TCE

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. SB-7-SO-6R

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-8-SO-11-100

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 14 September 2016
Finish 14 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 33/60	0.0 5.0	1.8	0.5		TOPSOIL/ORGANICS
			4.5			Brown silty SAND with gravel, mps coarse sand, slight odor, dry
			37.6			At 3.0 ft, strong odor, moist
			52.6			
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091416-0920 3.5-4.0 ft; vinyl chloride

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. SB-8-SO-11-100

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-8-SO-14R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 14 September 2016
Finish 14 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 42/60	0.0 5.0	0.1	0.5		TOPSOIL/ORGANICS
			0.3			Silty SAND with gravel, no odor, dry
				2.0		Brown SILT, some gravel, slight odor, moist
			4.4			
			2.8			
5	G2 27/60	5.0 10.0	1.6	5.0		Brown SILT, trace gravel, no odor, dry
			5.2			
			6.7	8.0		Dark brown/red-brown SILT with fill material, wood, strong odor, moist
			431.1			At 9.0 ft, fill material
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091416-1500 9.0-10.0 ft; chlorobenzene

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-8-SO-14R

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-AOC010-2013-100

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 36/60	0.0 5.0	4.7	0.5		TOPSOIL/ORGANICS/WOOD and GRAVEL
			23.3			Brown silty SAND, abundant gravel, no odor, dry
				3.5		Gray-brown silty CLAY with sand and gravel and fill material (cardboard), strong odor, moist
			14.2			
5	G2 26/60	5.0 10.0	23.2			At 4.9 ft, black wood
			36.7			Wood throughout
			44.9			
			5.9			
				9.5		Gray CLAY, no fill, slight odor, wet
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091516-1110 5.0-5.5 ft; benzene, nickel, TCE and grain-size

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-AOC010-2013-100

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-AOC010-2013-117

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 26/60	0.0 5.0	7.7	0.5		TOPSOIL/ORGANICS
			13.2			Brown sandy SILT, organic odor, moist, gravel present throughout
			64.2	3.0		GRAVEL/SAND layer, dry
			36.1	4.0		Gray CLAY fill material, brick fragments, glass, strong odor, moist
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091516-1415 4.0-4.5 ft; benzene

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. SB-AOC010-2013-117

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-AOC010-2013-129

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 15 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 36/60	0.0 5.0	1.7	0.5		TOPSOIL/ORGANICS
			0.9	1.0		Brown silty SAND, fine gravel, no odor, dry
						Gray GRAVEL and SAND, no odor, dry
			0.8			Similar to above from 0.0 to 1.0 ft, red-brown, black shiny fill material
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091516-1500 3.5-4.0 ft; nickel, TCE, grain-size and FOC

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. SB-AOC010-2013-129

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Plasticity**: N - Nonplastic L - Low M - Medium H - High
Toughness: L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-AOC1C-2013-107

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 12 September 2016
Finish 15 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 36/36	0.0 3.0				CONCRETE
				1.0		Red-brown CLAY, trace gravel, soft, mps <5 mm, no odor, moist Color change to gray at 1.0 ft
				3.0		BOTTOM OF EXPLORATION 3.0 FT
5						Notes: Samples: SB-AOC1C-2013-107R 1100 0.5-1.0 ft; TCE

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 3.0
Rock Cored (ft) --
Samples 1G

Boring No. SB-AOC1C-2013-107

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-AOC8B-2013-104

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 14 September 2016
Finish 14 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 32/60	0.0 5.0	0.0	0.5		TOPSOIL/ORGANICS
			0.0	2.0		Brown silty SAND, abundant gravel, no odor, dry
			21.5			Darker brown sandy SILT, strong odor, moist
			4.2			
5	G2 30/60	5.0 10.0	16.9			
			34.3			At 5.5 to 6.0 ft, gravel
			154.4	7.0		Black poorly graded medium grained SAND, strong odor, wet
			444.1			
			901.7	9.0		Gray-brown CLAYEY SAND, fibrous-like roots or fabric, wood, very strong paint thinner-like odor, glass throughout
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091416-1000 9.5-10.0 ft; chlorobenzene and nickel

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-AOC8B-2013-104

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-AOC8B-2013-105

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 14 September 2016
Finish 14 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 34/60	0.0 5.0	1.4	0.5		TOPSOIL/ORGANICS
			2.0			Light brown silty SAND with gravel, slight odor, dry
			7.3	3.0		Dark brown SILT, fill material - glass, fabric, plastic, gravel, strong odor, moist
			104.2			
5	G2 37/60	5.0 10.0	402	5.2		Orange fibrous material, very strong odor
			13.2	5.5		GRAVEL Similar to above at 3.0 ft
			127.2			
			291.2			At 8.0 ft, wood
			58.6	9.0		Dark brown SILT, slight odor, moist, wet at 9.0 ft, carbon black material at 10.0 ft
10				10.0		BOTTOM OF EXPLORATION 10.0 FT

Notes:

Samples:
4479-091416-1055 9.5-10.0 ft; nickel and TCE

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-AOC8B-2013-105

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-C8R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start
Finish
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 39/60	0.0 5.0	6.4	0.5		CONCRETE
			13.9			Red-brown soft CLAY with sand and gravel, no odor, moist
			17.2			Similar to above, less gravel, black staining
			4.5			
			1.2			
5			0.0	5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
SB-C8R 1115 2.0-2.5 ft;

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. SB-C8R

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-F10R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 12 September 2016
Finish 12 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 40/60	0.0 5.0	0.3	0.5		CONCRETE
						Red-brown medium dense CLAY, trace gravel, no odor, moist
			1.3			
			3.2			
			0.0			At 4.0 ft, wet
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
SB-F10R 1400 1.5-2.0 ft;

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. SB-F10R

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-F9R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 12 September 2016
Finish 12 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 40/60	0.0 5.0	0.0	0.5		CONCRETE
						Red-brown hard CLAY with gravel
			0.0	3.0		Red-brown silty SAND with gravel, no odor, dry
				4.0		Red-brown CLAY, mps <5 mm, no odor, moist
5	G2 35/60	5.0 10.0	0.0			At 5.0 ft, color change to tan brown
			0.0			
10	G3 32/36	10.0 13.0	0.0			Color grades back to red-brown
			0.0	11.0		Red-brown weathered ROCK CLAY similar to above
				13.0		BOTTOM OF EXPLORATION 13.0 FT
15						Notes: Samples: SB-F9R 9.5-10.0 1200; TCE, grain-size and FOC

Water Level Data						Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	Riser Pipe Screen Filter Sand Cuttings Grout Concrete Bentonite Seal	Overburden (ft) 13.0 Rock Cored (ft) -- Samples 3G **Boring No. SB-F9R**

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. TP-9-2-201

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 16 September 2016
Finish 16 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 45/60	0.0 5.0	0.5	0.5		TOPSOIL/ORGANICS
						Brown silty SAND with gravel, dry
			1.7			Brown SILT, some sand and gravel
			2.2			At 4.5 ft, slightly moist
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091616-0910 2.5-3.0 ft; benzene and TCE

Note: Approximate location - located in weeds.

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	5.0
Rock Cored (ft)	--
Samples	1G

Boring No. TP-9-2-201

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. TP-9-2-202

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 16 September 2016
Finish 16 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 27/60	0.0 5.0	2.3	0.5		ASPHALT
				1.0		Brown silty SAND with gravel, no odor, dry
			5.82			GRAVEL
				2.5		Gray-brown CLAY with sand, orange mottling
			556.7	4.0		Fill material - orange fibrous material, paint-like material, wood, glass
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091616-0925 2.5-3.0 ft; arsenic, benzene and nickel

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. TP-9-2-202

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. TP-9-2-204

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 16 September 2016
Finish 16 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 33/60	0.0 5.0	7.9	0.2		ASPHALT
			31.7			Gray CLAY with black staining, strong odor, moist
			10.0	2.0		Fill material - black coarse SAND, dry
				2.5		Red-brown CLAY, odor, moist
			4.3			Fill material as above with white, angular, hard, rock, fine grained, streaks white
			1.7			
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091616-0945 2.5-3.0 ft; benzene and TCE

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. TP-9-2-204

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. TP-9-2-206

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 16 September 2016
Finish 16 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 36/60	0.0 5.0	0.3			Light brown silty SAND, some gravel, no odor, dry
				1.5		GRAVEL and WOOd and brown sandy SILT, slight odor, moist
			30.0			
				3.5		GRAVEL
			76.2	4.0		Gray silty CLAY with fill material, strong odor, moist
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091616-0955 2.5-3.0 ft; TCE

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. TP-9-2-206

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. TP-9-2-300R

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 16 September 2016
Finish 16 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 38/60	0.0 5.0	3.0			Brown/black silty SAND, trace gravel, no odor, dry
			32.1	1.0		Red-brown GRAVEL
			140.8	2.0		Gray-brown CLAY with black staining
			37.4	3.5		Similar to above, moist to wet
			139.3			
5				5.0		At 4.5 ft, fill material - purple/blue paint
						BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091616-0850 3.0-3.5 ft; benzene
4479-091616-0855 4.5-5.0 ft; arsenic and benzene

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. TP-9-2-300R

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. TP-9-3-304

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 16 September 2016
Finish 16 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 31/60	0.0 5.0	0.0	0.5		CONCRETE
			0.0			Brown sandy SILT/silty SAND with gravel, no odor, damp
			0.0	3.5		GRAVEL
				4.0		Similar to above at 0.5 ft, silty SAND
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091616-1040 3.0-3.5 ft; benzene, TCE and nickel
4479-091616-1045 4.5-5.0 ft; benzene, TCE, nickel, grain-size and TOC

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. TP-9-3-304

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. TP-9-3-305

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 16 September 2016
Finish 16 September 2016
Driller
H&A Rep. T. Dennison
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 34/60	0.0 5.0	0.0	0.5		ASPHALT
			2.6	1.0		Black coarse SAND, fill material, slight odor, dry
						Red silty CLAY with gravel, slight odor, moist
			0.9			
			1.8			
5				5.0		BOTTOM OF EXPLORATION 5.0 FT

Notes:

Samples:
4479-091616-1000 0.0-0.5 ft; arsenic, benzene and nickel
4479-091616-1010 3.0-3.5 ft; benzene

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 5.0
Rock Cored (ft) --
Samples 1G

Boring No. TP-9-3-305

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_TEST BORINGS.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. AOC09-2013-104-EX1C

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 26 October 2016
Finish 26 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	G1	0.0 0.5	4.5	0.5		Dark brown silty CLAY, moist										
			3.8	1.0		Gray firm fat CLAY, with yellow mottles, moist										
			5.6	1.5		Brown fine GRAVEL, with black nodules, SAND, dry										
	G2	1.5 2.0	7	2.0		Gray large GRAVEL, with yellow mottles, SAND										
			2.9	2.5		Reddish-brown gravelly SAND	50									
5						BOTTOM OF EXPLORATION 2.5 FT										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 2.5
Rock Cored (ft) --
Samples 2G

Boring No. AOC09-2013-104-EX1C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. AOC09-2013-104-EX1E

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 26 October 2016
Finish 26 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	G1	0.0 0.5	3.9			Brown fat CLAY, dry										
			3.9	0.5		Light brown fat CLAY, with gray mottles, moist										
	G2	1.5 2.0	5.8	1.5		Gray fat CLAY, moist										
			3.9	2.5		Dark reddish-brown fat CLAY, moist										
			4.2	3.0		BOTTOM OF EXPLORATION 3.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 3.0
Rock Cored (ft) --
Samples 2G

Boring No. AOC09-2013-104-EX1E

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B7-2-EX1A

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	G1	0.0 0.5	8 2.1	0.3		Dark brown granular TOPSOIL, dry										
			1.6			Gray coarse to medium SAND, dry										
	G2	1.5 2.0	0.8	2.0												
			0.7	2.5		Very dark brown lean CLAY, dry										
			1.1	3.0		Light brown fat CLAY, with yellow mottles, very firm										
			0.9			BOTTOM OF EXPLORATION 3.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 3.0
Rock Cored (ft) --
Samples 2G

Boring No. B7-2-EX1A

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B7-2-EX1B

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	G1	0.0 0.5	0.1	0.5		TOPSOIL										
			5.5	1.0		Gray well graded SAND, dry										
			2.5	1.6		Reddish-brown lean CLAY										
	G2	1.5 2.0	3.3	3.0		Gray fat CLAY, with orange mottles, moist										
5			2.3			BOTTOM OF EXPLORATION 3.0 FT										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 3.0
Rock Cored (ft) --
Samples 2G

Boring No. B7-2-EX1B

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. B7-2-EX1C

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	G1	0.0 0.5	4.3	0.5		Dark brown clay LOAM, moist										
						Grayish clay LOAM, moist										
	G2	1.5 2.0	1.3													
			1.6	2.0		BOTTOM OF EXPLORATION 2.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 2.0
Rock Cored (ft) --
Samples 2G

Boring No. B7-2-EX1C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. CE1-102-EX1A

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0			1.3	0.2		TOPSOIL	50									
				0.6		Brown clay LOAM, fine and coarse gravel	30	20								
			15.4			Brown sticky fat CLAY, 10% fine gravel, CLAY		10								
			3.2	3.0		BOTTOM OF EXPLORATION 3.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 3.0
Rock Cored (ft) --
Samples --

Boring No. CE1-102-EX1A

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-09-S0-8-A-EX1A

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 26 October 2016
Finish 26 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	G1	0.0 0.5	2.1	0.5		Light brown LOAM with fine sand, dry		10								
			5.6	1.5		Light brown/yellow LOAM with fine sand, dry		10								
	G2	1.5 2.0	3.1 2.7 1.6	1.7 2.0		Brick fragments and dust, dry Dark brown LOAM with fine sand, dry	10	15								
5						BOTTOM OF EXPLORATION 2.0 FT										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 2.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-09-S0-8-A-EX1A

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-09-S0-8-A-EX1B

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 26 October 2016
Finish 26 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0						CONCRETE										
				0.5												
	G1	0.5 1.0	2.5			Orange/yellow mixed with asphalt										
				1.0												
			4.1	1.2		Brown fat CLAY, dry										
			3.6			Coarse GRAVEL layer	100									
			5.1	1.3		Brown fat CLAY, with slight yellow mottling, dry										
	G2	1.5 2.0		1.5		Coarse GRAVEL	95									
				2.0												
			4.0			BOTTOM OF EXPLORATION 2.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 2.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-09-S0-8-A-EX1B

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-09-S0-8-A-EX1C

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 26 October 2016
Finish 26 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	G1	0.0 0.5		0.3		Light brown TOPSOIL										
				1.3		Light brown fat CLAY										
	G2	1.5 2.0		2.0		Reddish/dark brown fat CLAY, fine gravel		10								
5						BOTTOM OF EXPLORATION 2.0 FT										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 2.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-09-S0-8-A-EX1C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-09-S0-8-A-EX1D

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0			2.6													
			12.4	0.3		Brown granular lean CLAY, dry										
				1.0		Brown granular fat CLAY, some fine gravel										
			1.6			Light brown fat CLAY, dry										
	G1	1.5 2.0														
			1.1													
			1.0	3.0		BOTTOM OF EXPLORATION 3.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 3.0
Rock Cored (ft) --
Samples 1G

Boring No. SB-09-S0-8-A-EX1D

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-09-S0-8-A-EX1E

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 26 October 2016
Finish 26 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0			4.7			ASPHALT										
			3.6	0.7		CEMENT										
			.5	1.3		Reddish-brown lean silty CLAY, dry										
	G1	1.5 2.0		2.0		BOTTOM OF EXPLORATION 2.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 2.0
Rock Cored (ft) --
Samples 1G

Boring No. SB-09-S0-8-A-EX1E

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-09-S0-8-A-EX1F

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 26 October 2016
Finish 26 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0			1.1	0.3		Coarse CONCRETE chunks (1 to 2 in.)										
	G1	0.3 - 0.6	2.6			Bright yellow lean CLAY, with brown mottles, black granules		10								
				1.0												
				1.2		Layer of ASPHALT chunks										
			4.1			Gray lean CLAY, with yellow and brown mottles, dry	15	10								
	G2	1.5 - 2.0		2.0												
						BOTTOM OF EXPLORATION 2.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 2.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-09-S0-8-A-EX1F

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-09-S0-8-A-EX1G

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 26 October 2016
Finish 26 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0			15.6			ASPHALT										
			5.8	1.5												
	G1	1.5 2.0	3.7			GRAVEL, APSHALT and fine SAND mixture	30	10								
			2.1	2.0		BOTTOM OF EXPLORATION 2.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 2.0
Rock Cored (ft) --
Samples 1G

Boring No. SB-09-S0-8-A-EX1G

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-09-S0-8-A-EX1H

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 26 October 2016
Finish 26 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				0.3		ASPHALT										
			2.1			Brown fat CLAY, with yellow mottles, dry		15								
				0.9												
			3.5			CONCRETE, coarse (1 to 2 in.) pieces										
			2.7	1.0		Light brown fat CLAY with 20% gravel										
	G1	1.5 2.0														
				2.0												
			4.1			BOTTOM OF EXPLORATION 2.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 2.0
Rock Cored (ft) --
Samples 1G

Boring No. SB-09-S0-8-A-EX1H

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-09-S0-8-A-EX1I

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 26 October 2016
Finish 26 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0			3.6			ASPHALT										
				0.5												
			4.9			Brown sandy CLAY with coarse and fine gravel, dry	20	10								
			1.4													
			5.6													
				2.0		BOTTOM OF EXPLORATION 2.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 2.0
Rock Cored (ft) --
Samples --

Boring No. SB-09-S0-8-A-EX1I

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-09-S0-8-A-EX1J

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 26 October 2016
Finish 26 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0			2.8			ASPHALT chunks										
			3.1	0.5		Brown fat CLAY, with slight yellow mottling, moist										
			5.6	1.0		Brown fat CLAY, with considerable yellow mottling and concrete chunks, moist		20								
			3.5	2.0		BOTTOM OF EXPLORATION 2.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 2.0
Rock Cored (ft) --
Samples --
Boring No. SB-09-S0-8-A-EX1J

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-09-S0-8-A-EX1K

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 26 October 2016
Finish 26 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				0.7		ASPHALT										
			2.6	1.0		Brown fat CLAY, moist	50	50								
				1.5		Crushed CEMENT										
			4.1	2.0		Light brown fat CLAY, with gray mottling, moist										
				2.5		Brown LOAM mixed with cement dust and gravel	30	10								
			3.9			BOTTOM OF EXPLORATION 2.5 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 2.5
Rock Cored (ft) --
Samples --

Boring No. SB-09-S0-8-A-EX1K

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-AOC09-2013-104-EX1A

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	G1	0.0 0.5	6.2	0.6		Dark brown LOAM, medium gravel -TOPSOIL-	10	10								
				1.0		Light brown/gray silty LOAM with fine gravel		10								
			3.1			Light brown silty LOAM, dry										
	G2	1.5 2.0		2.0												
			4.5			BOTTOM OF EXPLORATION 2.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 2.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-AOC09-2013-104-EX1A

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-AOC09-2013-104-EX1B

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	G1	0.0 0.5	5.1	0.3		Brown TOPSOIL, dry						>50				
			4.2			Brown silty lean CLAY, dry										
				1.3												
			3.6			Brown fat CLAY with some fine gravel, dry										
	G2	1.5 2.0		2.0												
			3.6			Light brown fat CLAY, firm, dry										
				2.5												
			3.3			Dark brown fat CLAY, firm, moist										
				3.0												
						BOTTOM OF EXPLORATION 3.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 3.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-AOC09-2013-104-EX1B

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-AOC09-2013-104-EX1E

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 26 October 2016
Finish 26 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	G1	0.0 0.5	3.1	0.5		Brown silty lean CLAY, soft, dry										
			4.5	1.0		Gray fat CLAY, with reddish-brown mottles										
			5.0	1.5		Reddish-brown silty CLAY, moderately soft										
	G2	1.5 2.0	4.6	1.8		Gray fat CLAY layer, wet										
			3.2	2.0		Very hard GRAVEL with gray mottles, consolidated gravelly material										
						BOTTOM OF EXPLORATION 2.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 2.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-AOC09-2013-104-EX1E

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-AOC09-2013-EX1D

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 26 October 2016
Finish 26 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	G1	0.0 0.5	5.9	0.5		Dark brown lean CLAY, soft, dry										
			5.1	1.0		Dark brown fat CLAY, stiff, dry										
			13.4	1.5		Brown fat CLAY, soft, moist										
	G2	1.5 2.0	2.5	2.0		Reddish-brown fat CLAY, with gray mottles, soft, moist										
			6.1			BOTTOM OF EXPLORATION 2.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 2.0
Rock Cored (ft) --
Samples 2G

Boring No. SB-AOC09-2013-EX1D

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-C8-EX1A

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	G1	0.0 0.5	0.9 4.1	0.3		Brown/yellow clay LOAM										
						Orange/gray lean CLAY										
			2.6													
				2.5		Brown fine sandy LOAM, moist										
				3.0		Brown fat CLAY, moist										
				4.0		BOTTOM OF EXPLORATION 4.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 4.0
Rock Cored (ft) --
Samples 1G

Boring No. SB-C8-EX1A

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-C8-EX1B

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0			3.1			SAND/CONCRETE										
				0.4												
			2.6			Light brown/orange lean CLAY										
				3.0												
			4.1			GRAVEL										
			5.1	3.2		Dark brown fat CLAY										
				4.0												
						BOTTOM OF EXPLORATION 4.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 4.0
Rock Cored (ft) --
Samples --

Boring No. SB-C8-EX1B

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-C8-EX1C

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0			1.3	0.3		GRAVEL/TOPSOIL/CEMENT										
			7.9	0.5		SAND Light brown lean CLAY										
			9.6	2.0		Dark brown fat CLAY										
			3.1	3.5		BOTTOM OF EXPLORATION 3.5 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 3.5
Rock Cored (ft) --
Samples --

Boring No. SB-C8-EX1C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-C8-EX1D

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0			2.1			CEMENT										
				0.4												
			3			Light brown lean CLAY										
			6													
				1.3												
			4.1			GRAVEL layer										
				2.0												
			0.7			Dark brown fat CLAY										
				4.0		BOTTOM OF EXPLORATION 4.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 4.0
Rock Cored (ft) --
Samples --

Boring No. SB-C8-EX1D

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-F10-EX1A

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				0.5		GRAVEL/TOPSOIL/CEMENT										
				1.3		SAND										
				1.5		GRAVEL										
	G1	1.5 2.0		2.0		Light brown fat CLAY										
5						BOTTOM OF EXPLORATION 2.0 FT										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 2.0
Rock Cored (ft) --
Samples 1G
Boring No. SB-F10-EX1A

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-F10-EX1B

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0						CONCRETE										
			3.1	0.5		Light brown lean CLAY										
			2.6	1.0		Sandy GRAVEL										
			4.0	2.0		Dark brown fat CLAY										
				3.5		BOTTOM OF EXPLORATION 3.5 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 3.5
Rock Cored (ft) --
Samples --

Boring No. SB-F10-EX1B

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-F10-EX1C

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0						CONCRETE and COBBLES										
				0.5		Light orange-brown lean CLAY										
				1.5												
				1.7		GRAVEL										
						Brown fat CLAY, moist	50	50								
				4.0		BOTTOM OF EXPLORATION 4.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 4.0
Rock Cored (ft) --
Samples --
Boring No. SB-F10-EX1C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

TEST BORING REPORT

Boring No. SB-F10-EX1D

Project Ewing Township Industrial Land, 1445 Parkway Avenue, Ewing, NJ
Client RACER
Contractor Summit Drilling

File No. 70613-814
Sheet No. 1 of 1
Start 27 October 2016
Finish 27 October 2016
Driller
H&A Rep. D. Goettel
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	--	--	--	Rig Make & Model: Geoprobe
Inside Diameter (in.)	--	--	--	Bit Type:
Hammer Weight (lb)	--	--	-	Drill Mud:
Hammer Fall (in.)	--	--	-	Casing: --
				Hoist/Hammer: -- --
				PID Make & Model: MiniRAE 2000 10.6 eV

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0						CONCRETE										
				0.5		Light brown lean CLAY										
				2.0		GRAVEL/SAND										
				2.5		Dark brown fat CLAY										
				4.0		BOTTOM OF EXPLORATION 4.0 FT										
5																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 4.0
Rock Cored (ft) --
Samples --
Boring No. SB-F10-EX1D

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TESTBORING-09 W/PID-3 HA-LIB07-1-CLE-RACER-70613.GLB HA-TB+CORE+WELL-07-1.GDT \\CLE\COMMON\PROJECTS\70613\814 - SPLP SOIL SAMPLING AND DELINEATION BORINGS\GINT DATABASES\70613-814_GEOPROBES.GPJ 25 Apr 17

APPENDIX F

ARS Calculations

SPLP Evaluation Sheets

NJDEP SPLP Spreadsheet, V3.1, November 2013

Case name/area of concern:	Former Delphi Interior and Lighting Systems Division
Case number:	E97070
Sampling date:	9/12-16/2016
Contaminant:	Arsenic (total)
CAS No:	7440-38-2
Water solubility (mg/L)	NA
Aqueous reporting limit (µg/L):	3.00E+00
Soil reporting limit (mg/kg):	1.00E+00
Health-based GWQC (µg/L)	2.00E-02
DAF (20, or site-specific if approved):	20
Leachate Criterion (µg/L):	3.00E+00 adjusted from 0.4
Henry's law constant (dimensionless):	0.00E+00

CALCULATE SITE SPECIFIC IGW STANDARD

Reset Spreadsheet

Print Results

Instructions

CLICK HERE if chemical is not on drop-down list, or to enter alternate GWQC

Print to file

Exit

NOTE:
USE ONE PAGE PER CONTAMINANT, do not leave empty rows between samples
Do not enter samples with soil concentrations at or below the reporting limit
When leachate concentration is non-detect, enter the aqueous reporting limit
Enter site-specific dilution-attenuation factor (DAF) if desired

Data entry cells (do not skip rows)
Optional data entry
Calculated or locked cells
Indicates that Alternative Remediation Standard needs to be recalculated

Sample ID	Soil sample weight (kg)	Leachate Volume (L)	Total Soil Concentration (mg/kg)	SPLP Leachate Concentration (µg/L)	Final pH of Leachate (except VOCs)	Optional data				Kd (L/kg)	% Contaminant in Leachate	Field leachate concentration (µg/L)	Pass or fail?
						Sampling Depth (ft)	Soil Type	Organic Carbon (mg/kg)	Organic Carbon (%)				
B9-9	0.1	2	62	8.42	9.6	0 - 0.5				7343.4	0.27	8.44	FAIL
B9-2R	0.1	2	34	10.1	9.7	0 - 0.5				3346.3	0.59	10.16	FAIL
ISO6-103R	0.1	2	46	10.8	9.7	1 - 1.5				4239.3	0.47	10.85	FAIL
ISO7-103R	0.1	2	45	11.6	10.1	2.5 - 3				3859.3	0.52	11.66	FAIL
ISO6R	0.1	2	62	13	8	1 - 1.5				4749.2	0.42	13.05	FAIL
B9-2-100R	0.1	2	24	13.6	9.7	0 - 0.5				1744.7	1.13	13.75	FAIL
B9-2-103R	0.1	2	47	16.4	3.2	0 - 0.5				2845.9	0.70	16.51	FAIL
B9-16	0.1	2	69	17.6	9.2	0 - 0.5				3900.5	0.51	17.69	FAIL
B9-16-100	0.1	2	50	24.6	9.8	0 - 0.5				2012.5	0.98	24.84	FAIL
B9-2-101R	0.1	2	68	54.6	9.7	0 - 0.5				1225.4	1.61	55.48	FAIL

SPLP RESULTS for

OPTION 1a: All adjusted leachate concentrations are below the leachate criterion
OPTION 1a NOT VALID

OPTION 1b: Simple inspection of tabulated results to find highest acceptable standard
THE LOWEST SOIL CONCENTRATION FAILED, USE OPTIONS 2 OR 3

OPTION 2: Remediation standard using site-specific Kd value
Kd ratio = 5.99, AVERAGING Kds OK
Kd USED FOR CALCULATING STANDARD = 3526.65 L/kg
result before rounding = 10.5804 mg/kg
REMEDIATION STANDARD = 19 mg/kg (controlled by natural background for arsenic)

OPTION 3: Remediation standard using linear regression
Number of points = 10
Soil concentration midrange = 46.5
Number of points above midrange = 6
Enough points above midrange? YES
R-Square high enough? NO
Leachate criterion within range of leachate concentrations? NO
OPTION 3 NOT VALID

NJDEP SPLP Spreadsheet, V3.1, November 2013

CALCULATE SITE SPECIFIC IGW STANDARD | Reset Spreadsheet | Print Results | Instructions | Print to file | Exit

Case name/area of concern:	Former Delphi Interior and Lighting Systems Division
Case number:	E97070
Sampling date:	2012
Contaminant:	Chromium
CAS No:	7440-47-3 (enter NA if inorganic)
Water solubility (mg/L)	NA
Aqueous reporting limit (µg/L):	2.80E+00
Soil reporting limit (mg/kg):	1.07E+01 (if unavailable, enter a value below lowest concentration measured)
Health-based GWQC (µg/L)	7.00E+01
DAF (20, or site-specific if approved):	**20**
Leachate Criterion (µg/L):	1.40E+03
Henry's law constant (dimensionless):	(enter 0 if inorganic)

NOTE:
USE ONE PAGE PER CONTAMINANT, do not leave empty rows between samples
Do not enter samples with soil concentrations at or below the reporting limit.
When leachate concentration is non-detect, enter the aqueous reporting limit
Enter site-specific dilution-attenuation factor (DAF) if desired

Data entry cells (do not skip rows)
Optional data entry
Calculated or locked cells
Indicates that Alternative Remediation Standard needs to be recalculated

Sample ID	Soil sample weight (kg)	Leachate Volume (L)	Total Soil Concentration (mg/kg)	SPLP Leachate Concentration (µg/L)	Final pH of Leachate (except VOCs)	Optional data				Kd (L/kg)	% Contaminant in Leachate	Field leachate concentration (µg/L)	Pass or fail?
						Sampling Depth (ft)	Soil Type	Organic Carbon (mg/kg)	Organic Carbon (%)				
SB-11-SO-200	0.1	2	12.9	2.8	7.2	0 - 0.5 (ft)				4587.1	0.43	2.80	PASS
PL05-200	0.1	2	15.1	2.8	10	0.5 - 1 (ft)				5372.9	0.37	2.80	PASS
PL05-201	0.1	2	15.1	2.8	10	0.5 - 1 (ft)				5372.9	0.37	2.80	PASS
SB-11-SO-200	0.1	2	19.4	2.8	7.2	3.5 - 4 (ft)				6908.6	0.29	2.80	PASS
B9-16-200	0.1	2	19.5	2.8	7.9	5 - 5.5 (ft)				6944.3	0.29	2.80	PASS
SB-11-SO-201	0.1	2	20.9	2.8	7.3	0 - 0.5 (ft)				7444.3	0.27	2.80	PASS
B6-201	0.1	2	23.3	2.8	10.6	9.5 - 10 (ft)				8301.4	0.24	2.80	PASS
GS08-200	0.1	2	24.5	2.8	10.6	11.5 - 12 (ft)				8730.0	0.23	2.80	PASS
PL05-200	0.1	2	26.8	2.8	7.5	2.5 - 3 (ft)				9551.4	0.21	2.80	PASS
PL05-201	0.1	2	28.9	2.8	6.3	2.5 - 3 (ft)				10301.4	0.19	2.80	PASS
SB-11-SO-201	0.1	2	29.5	2.8	6.2	3.5 - 4 (ft)				10515.7	0.19	2.80	PASS
TP9-2-202	0.1	2	108	2.8	8.1	2.5 - 3 (ft)				38551.4	0.05	2.80	PASS
B3-4-200	0.1	2	22.6	3.9	10.5	0.5 - 1 (ft)				5774.9	0.35	3.91	PASS
B3-4-200	0.1	2	27.4	4.7	10.8	9.5 - 10 (ft)				5809.8	0.34	4.72	PASS
TP9-3-203	0.1	2	1540	5.5	7.9	2.5 - 3 (ft)				279980.0	0.01	5.50	PASS
GS08-200	0.1	2	31.2	7	10.3	0.5 - 1 (ft)				4437.1	0.45	7.03	PASS
B9-16-200	0.1	2	10.7	7.1	8.5	0 - 0.5 (ft)				1487.0	1.33	7.19	PASS
TP9-3-203	0.1	2	24.3	17.1	7.8	9 - 9.5 (ft)				1401.1	1.41	17.34	PASS
TP9-2-202	0.1	2	20.8	19	8.1	9 - 9.5 (ft)				1074.7	1.83	19.35	PASS
B6-201	0.1	2	26.7	22.7	11.8	0.5 - 1 (ft)				1156.2	1.70	23.09	PASS
PL05-202	0.1	2	19	23.8	9.5	2.5 - 3 (ft)				778.3	2.51	24.41	PASS
PL05-202	0.1	2	51.4	35.5	9.5	0.5 - 1 (ft)				1427.9	1.38	35.99	PASS

SPLP RESULTS for

OPTION 1a: All adjusted leachate concentrations are below the leachate criterion

REMEDIATION STANDARD = 1540 mg/kg

OPTION 1b: Simple inspection of tabulated results to find highest acceptable standard
EVERYTHING PASSED, OPTION 1b NOT VALID

OPTION 2: Remediation standard using site-specific Kd value
Kd ratio = 359.72, USE MINIMUM Kd
Kd USED FOR CALCULATING STANDARD = 778.32 L/kg
result before rounding = 1089.8617 mg/kg

NJDEP SPLP Spreadsheet, V3.1, November 2013

Case name/area of concern:	Former Delphi Interior and Lighting Systems Division
Case number:	E97070
Sampling date:	9/12-16/2016
Contaminant:	Lead (total)
CAS No:	7439-92-1
Water solubility (mg/L)	NA
Aqueous reporting limit (µg/L):	5.00E+00
Soil reporting limit (mg/kg):	1.00E+00
Health-based GWQC (µg/L)	5.00E+00
DAF (20, or site-specific if approved):	20
Leachate Criterion (µg/L):	#NAME? #NAME?
Henry's law constant (dimensionless):	0.00E+00

CALCULATE SITE SPECIFIC IGW STANDARD

Reset Spreadsheet

Print Results

Instructions

CLICK HERE if chemical is not on drop-down list, or to enter alternate GWQC

Print to file

Exit

NOTE:
USE ONE PAGE PER CONTAMINANT, do not leave empty rows between samples
Do not enter samples with soil concentrations at or below the reporting limit
When leachate concentration is non-detect, enter the aqueous reporting limit
Enter site-specific dilution-attenuation factor (DAF) if desired

Data entry cells (do not skip rows)
Optional data entry
Calculated or locked cells
Indicates that Alternative Remediation Standard needs to be recalculated

Sample ID	Soil sample weight (kg)	Leachate Volume (L)	Total Soil Concentration (mg/kg)	SPLP Leachate Concentration (µg/L)	Final pH of Leachate (except VOCs)	Optional data				Kd (L/kg)	% Contaminant in Leachate	Field leachate concentration (µg/L)	Pass or fail?
						Sampling Depth (ft)	Soil Type	Organic Carbon (mg/kg)	Organic Carbon (%)				
TP9-2-202	0.1	2	40.1	0.88	8.09					45548.2	0.04	0.88	PASS
B3-4-200	0.1	2	11.5	1.3	10.78					8826.2	0.23	1.30	PASS
B6-201	0.1	2	66.2	3.2	11.76					20667.5	0.10	3.20	PASS
SB-11-SO-200	0.1	2	8.7	5	7.17					1720.0	1.15	5.00	PASS
GS08-200	0.1	2	8.9	5	8					1760.0	1.12	5.00	PASS
B6-201	0.1	2	11.2	5	10.56					2220.0	0.89	5.00	PASS
PL05-201	0.1	2	13.1	5	6.31					2600.0	0.76	5.00	PASS
PL05-200	0.1	2	13.4	5	7.46					2660.0	0.75	5.00	PASS
SB-11-SO-200	0.1	2	13.7	5	6.58					2720.0	0.73	5.00	PASS
B3-4-200	0.1	2	15.7	5	10.51					3120.0	0.64	5.00	PASS
SB-11-SO-201	0.1	2	19.4	5	6.24					3860.0	0.52	5.00	PASS
PL05-201	0.1	2	20.7	5	8					4120.0	0.48	5.00	PASS
PL05-200	0.1	2	45.5	5	9.98					9080.0	0.22	5.00	PASS
TP9-3-203	0.1	2	328	6.6	7.89					49677.0	0.04	6.60	PASS
GS08-200	0.1	2	30.3	7.1	8					4247.6	0.47	7.13	PASS
TP9-3-203	0.1	2	13.5	7.1	7.78					1881.4	1.05	7.17	PASS
PL05-202	0.1	2	11.6	8.4	9.5					1361.0	1.45	8.52	PASS
PL05-202	0.1	2	9.2	10.9	8.58					824.0	2.37	11.16	PASS
TP9-2-202	0.1	2	11.3	16.5	8.09					664.8	2.92	16.99	PASS
SB-11-SO-201	0.1	2	228	17.1	7.25					13313.3	0.15	17.13	PASS

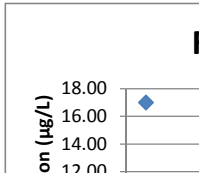
SPLP RESULTS for

OPTION 1a: All adjusted leachate concentrations are below the leachate criterion

REMEDIATION STANDARD = 328 mg/kg

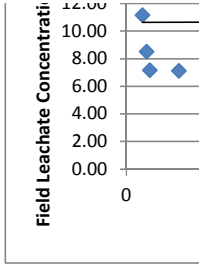
OPTION 1b: Simple inspection of tabulated results to find highest acceptable standard
EVERYTHING PASSED, OPTION 1b NOT VALID

OPTION 2: Remediation standard using site-specific Kd value
Kd ratio = 74.72, USE MINIMUM Kd
Kd USED FOR CALCULATING STANDARD = 664.85 L/kg
result before rounding = 66.5002 mg/kg
REMEDIATION STANDARD = 67 mg/kg



OPTION 3: Remediation standard using linear regression

Number of points = 7
(points were eliminated because leachate concentrations were not above the aqueous reporting limit)
Soil concentration midrange = 168.6
Number of points above midrange = 2
Enough points above midrange? NO
R-Square high enough? NO
Leachate criterion within range of leachate concentrations? NO
OPTION 3 NOT VALID



REMEDIATION STANDARD = 1100 mg/kg

OPTION 3: Remediation standard using linear regression

Number of points = 10
(points were eliminated because leachate concentrations were not above the aqueous reporting limit)
Soil concentration midrange = 775.35
Number of points above midrange = 1
Enough points above midrange? NO
R-Square high enough? NO
Leachate criterion within range of leachate concentrations? NO
OPTION 3 NOT VALID

NJDEP SPLP Spreadsheet, V3.1, November 2013

Case name/area of concern:	Former Delphi Interior and Lighting Systems Division
Case number:	E97070
Sampling date:	9/12-16/2016
Contaminant:	Nickel (total)
CAS No:	7440-02-0
Water solubility (mg/L)	NA
Aqueous reporting limit (µg/L):	4.00E+00
Soil reporting limit (mg/kg):	4.00E+00
Health-based GWQC (µg/L)	1.00E+02
DAF (20, or site-specific if approved):	20
Leachate Criterion (µg/L):	2.00E+03
Henry's law constant (dimensionless):	0.00E+00

CALCULATE SITE SPECIFIC IGW STANDARD

Reset Spreadsheet

Print Results

Instructions

CLICK HERE if chemical is not on drop-down list, or to enter alternate GWQC

Print to file

Exit

NOTE:

USE ONE PAGE PER CONTAMINANT, do not leave empty rows between samples
Do not enter samples with soil concentrations at or below the reporting limit
When leachate concentration is non-detect, enter the aqueous reporting limit
Enter site-specific dilution-attenuation factor (DAF) if desired

Data entry cells (do not skip rows)
Optional data entry
Calculated or locked cells
Indicates that Alternative Remediation Standard needs to be recalculated

Sample ID	Soil sample weight (kg)	Leachate Volume (L)	Total Soil Concentration (mg/kg)	SPLP Leachate Concentration (µg/L)	Final pH of Leachate (except VOCs)	Optional data				Kd (L/kg)	% Contaminant in Leachate	Field leachate concentration (µg/L)	Pass or fail?
						Sampling Depth (ft)	Soil Type	Organic Carbon (mg/kg)	Organic Carbon (%)				
SB-10-SO-5A	0.1	2	860	0.962	11					893950.9	0.00	0.96	PASS
B7-3R	0.1	2	630	1.05	9.8					599980.0	0.00	1.05	PASS
B7-3R	0.1	2	2300	4	9.76					574980.0	0.00	4.00	PASS
B8-8-1	0.1	2	220	5.77	9.82					38108.2	0.05	5.77	PASS
ISO5/ISO5-100R	0.1	2	720	12.1	9.15					59484.1	0.03	12.10	PASS
B8-4	0.1	2	4200	69.8	8.32					60151.9	0.03	69.82	PASS
PL07-107R	0.1	2	5300	70.3	7.21					75371.2	0.03	70.32	PASS
PL07-01R	0.1	2	930	103	9.08					9009.1	0.22	103.23	PASS
SB-10-SO-10	0.1	2	480	122	9.2					3914.4	0.51	122.62	PASS
SB-10-SO-10	0.1	2	5000	127	8.83					39350.1	0.05	127.06	PASS
SB-AOC010-2013-100	0.1	2	550	162	9.47					3375.1	0.59	162.95	PASS
TP9-3-305R	0.1	2	360	204	3.68					1744.7	1.13	206.32	PASS
PL07-01	0.1	2	1100	348	9.94					3140.9	0.63	350.20	PASS
SB-AOC8B-2013-105	0.1	2	3000	767	9.03					3891.3	0.51	770.91	PASS
268-2R	0.1	2	3000	1640	10.1					1809.3	1.09	1657.99	PASS
268-2R	0.1	2	9200	1850	10.1					4953.0	0.40	1857.41	PASS
SB-AOC8B-2013-104	0.1	2	480	1760	7.27					252.7	7.33	1898.13	PASS

One sample is removed due to anomaly

SPLP RESULTS for

OPTION 1a: All adjusted leachate concentrations are below the leachate criterion

REMEDIATION STANDARD = 9200 mg/kg

OPTION 1b: Simple inspection of tabulated results to find highest acceptable standard
EVERYTHING PASSED, OPTION 1b NOT VALID

OPTION 2: Remediation standard using site-specific Kd value
Kd ratio = 3537.22, USE MINIMUM Kd
Kd USED FOR CALCULATING STANDARD = 252.73 L/kg
result before rounding = 505.7612 mg/kg
REMEDIATION STANDARD = 510 mg/kg

OPTION 3: Remediation standard using linear regression
Number of points = 14

(points were eliminated because leachate concentrations were not above the aqueous reporting limit)
Soil concentration midrange = 4710.
Number of points above midrange = 3
Enough points above midrange? NO
R-Square high enough? NO
Leachate criterion within range of leachate concentrations? NO
OPTION 3 NOT VALID

NJDEP SPLP Spreadsheet, V3.1, November 2013

Case name/area of concern:	Former Delphi Interior and Lighting Systems Division
Case number:	E97070
Sampling date:	9/12-16/2016
Contaminant:	Zinc (total)
CAS No:	7440-66-6
Water solubility (mg/L)	NA
Aqueous reporting limit (µg/L):	1.00E+01
Soil reporting limit (mg/kg):	6.00E+00
Health-based GWQC (µg/L)	2.00E+03
DAF (20, or site-specific if approved):	20
Leachate Criterion (µg/L):	4.00E+04
Henry's law constant (dimensionless):	0.00E+00

CALCULATE SITE SPECIFIC IGW STANDARD

Reset Spreadsheet

Print Results

Instructions

CLICK HERE if chemical is not on drop-down list, or to enter alternate GWQC

Print to file

Exit

NOTE:

USE ONE PAGE PER CONTAMINANT, do not leave empty rows between samples

Do not enter samples with soil concentrations at or below the reporting limit

When leachate concentration is non-detect, enter the aqueous reporting limit

Enter site-specific dilution-attenuation factor (DAF) if desired

Data entry cells (do not skip rows)

Optional data entry

Calculated or locked cells

Indicates that Alternative Remediation Standard needs to be recalculated

Sample ID	Soil sample weight (kg)	Leachate Volume (L)	Total Soil Concentration (mg/kg)	SPLP Leachate Concentration (µg/L)	Final pH of Leachate (except VOCs)	Optional data				Kd (L/kg)	% Contaminant in Leachate	Field leachate concentration (µg/L)	Pass or fail?
						Sampling Depth (ft)	Soil Type	Organic Carbon (mg/kg)	Organic Carbon (%)				
B3-4-200	0.1	2	23.5	10	10.8					2330.0	0.85	10.00	PASS
B9-16-200	0.1	2	23.6	10	7.9					2340.0	0.85	10.00	PASS
SB-11-SO-200	0.1	2	26.3	10	7.2					2610.0	0.76	10.00	PASS
GS08-200	0.1	2	31.7	10	10.6					3150.0	0.63	10.00	PASS
B3-4-200	0.1	2	32.8	10	10.5					3260.0	0.61	10.00	PASS
B6-201	0.1	2	33	10	10.6					3280.0	0.61	10.00	PASS
PL05-201	0.1	2	34.1	10	10					3390.0	0.59	10.00	PASS
PL05-201	0.1	2	34.3	10	6.3					3410.0	0.58	10.00	PASS
SB-11-SO-200	0.1	2	39.6	10	7.2					3940.0	0.51	10.00	PASS
PL05-200	0.1	2	42	10	10					4180.0	0.48	10.00	PASS
SB-11-SO-201	0.1	2	160	10	7.3					15980.0	0.13	10.00	PASS
PL05-202	0.1	2	34	28.3	9.5					1181.4	1.66	28.78	PASS
SB-11-SO-201	0.1	2	48.3	31.5	6.2					1513.3	1.30	31.91	PASS
TP9-3-203	0.1	2	55.3	32	7.8					1708.1	1.16	32.37	PASS
GS08-200	0.1	2	85.4	34.3	10.3					2469.8	0.80	34.58	PASS
PL05-200	0.1	2	32.3	50.1	7.5					624.7	3.10	51.69	PASS
PL05-202	0.1	2	31.6	50.2	9.5					609.5	3.18	51.83	PASS
B6-201	0.1	2	142	63.3	10.6					2223.3	0.89	63.87	PASS
TP9-3-203	0.1	2	10500	100	7.9					104980.0	0.02	100.02	PASS
TP9-2-202	0.1	2	14200	133	8.09					106746.9	0.02	133.02	PASS
B9-16-200	0.1	2	35.5	168	8.5					191.3	9.46	185.41	PASS
TP9-2-202	0.1	2	52.6	325	8.1					141.8	12.36	370.42	PASS

SPLP RESULTS for

OPTION 1a: All adjusted leachate concentrations are below the leachate criterion

REMEDIATION STANDARD = 14200 mg/kg

OPTION 1b: Simple inspection of tabulated results to find highest acceptable standard

EVERYTHING PASSED, OPTION 1b NOT VALID

OPTION 2: Remediation standard using site-specific Kd value

Kd ratio = 752.55, USE MINIMUM Kd

Kd USED FOR CALCULATING STANDARD = 141.85 L/kg

result before rounding = 5679.9795 mg/kg

REMEDIATION STANDARD = 5700 mg/kg

OPTION 3: Remediation standard using linear regression

Number of points = 11

(points were eliminated because leachate concentrations were not above the aqueous reporting limit)

Soil concentration midrange = 7115.8

Number of points above midrange = 2

Enough points above midrange? NO

R-Square high enough? NO

Leachate criterion within range of leachate concentrations? NO

OPTION 3 NOT VALID

NJDEP SPLP Spreadsheet, V3.1, November 2013

Case name/area of concern:	Former Delphi Interior and Lighting Systems Division
Case number:	E97070
Sampling date:	9/12-16/2016
Contaminant:	Benzene
CAS No:	71-43-2
Water solubility (mg/L)	1.75E+03
Aqueous reporting limit (µg/L):	1.00E+00
Soil reporting limit (mg/kg):	5.00E-03
Health-based GWQC (µg/L)	2.00E-01
DAF (20, or site-specific if approved):	20
Leachate Criterion (µg/L):	4.00E+00
Henry's law constant (dimensionless):	2.28E-01

CALCULATE SITE SPECIFIC IGW STANDARD

Reset Spreadsheet

Print Results

Instructions

CLICK HERE if chemical is not on drop-down list, or to enter alternate GWQC

Print to file

Exit

NOTE:
USE ONE PAGE PER CONTAMINANT, do not leave empty rows between samples
Do not enter samples with soil concentrations at or below the reporting limit
When leachate concentration is non-detect, enter the aqueous reporting limit
Enter site-specific dilution-attenuation factor (DAF) if desired

Data entry cells (do not skip rows)
Optional data entry
Calculated or locked cells
Indicates that Alternative Remediation Standard needs to be recalculated

Sample ID	Soil sample weight (kg)	Leachate Volume (L)	Total Soil Concentration (mg/kg)	SPLP Leachate Concentration (µg/L)	Final pH of Leachate (except VOCs)	Optional data				Kd (L/kg)	% Contaminant in Leachate	Field leachate concentration (µg/L)	Pass or fail?
						Sampling Depth (ft)	Soil Type	Organic Carbon (mg/kg)	Organic Carbon (%)				
SB-10-SO-10-103	0.1	2	0.094	1.1	7.94	6.5 - 7 (ft)				65.5	23.40	1.43	PASS
B8-4-100	0.1	2	0.086	1.3	7.74	8 - 8.5 (ft)				46.2	30.23	1.86	PASS
TP9-2-300RR	0.1	2	0.2	3	7.3	4.5 - 5 (ft)				46.7	30.00	4.27	FAIL
TP9-2-300RR	0.1	2	0.1	2.7	6.4	3 - 3.5 (ft)				17.0	54.00	5.81	FAIL
SB-AOC010-2013-100	0.1	2	0.18	3.9	9.47	5 - 5.5 (ft)				26.2	43.33	6.84	FAIL
SB-AOC010-2013-117	0.1	2	0.12	3.5	8.61	4 - 4.5 (ft)				14.3	58.33	8.30	FAIL
SB-10-SO-10-100	0.1	2	0.61	9.6	7.38	6 - 6.5 (ft)				43.5	31.48	13.95	FAIL
B8-4-102	0.1	2	2.6	29	7.99	8 - 8.5 (ft)				69.7	22.31	37.23	FAIL

SPLP RESULTS for

OPTION 1a: All adjusted leachate concentrations are below the leachate criterion
OPTION 1a NOT VALID

OPTION 1b: Simple inspection of tabulated results to find highest acceptable standard

REMEDIATION STANDARD = 0.094 mg/kg

OPTION 2: Remediation standard using site-specific Kd value
Kd ratio = 4.88, AVERAGING Kds OK
Kd USED FOR CALCULATING STANDARD = 41.12 L/kg
result before rounding = 0.1652 mg/kg
REMEDIATION STANDARD = 0.2 mg/kg

OPTION 3: Remediation standard using linear regression
Number of points = 8
Soil concentration midrange = 1.34
Number of points above midrange = 1
Enough points above midrange? NO
R-Square high enough? YES
Leachate criterion within range of leachate concentrations? YES
OPTION 3 NOT VALID

NJDEP SPLP Spreadsheet, V3.1, November 2013

Case name/area of concern:	Former Delphi Interior and Lighting Systems Division
Case number:	E97070
Sampling date:	9/12-16/2016
Contaminant:	Chlorobenzene
CAS No:	108-90-7
Water solubility (mg/L)	4.72E+02
Aqueous reporting limit (µg/L):	1.00E+00
Soil reporting limit (mg/kg):	5.00E-03
Health-based GWQC (µg/L)	5.00E+01
DAF (20, or site-specific if approved):	20
Leachate Criterion (µg/L):	1.00E+03
Henry's law constant (dimensionless):	1.52E-01

CALCULATE SITE SPECIFIC IGW STANDARD

Reset Spreadsheet

Print Results

Instructions

CLICK HERE if chemical is not on drop-down list, or to enter alternate GWQC

Print to file

Exit

NOTE:

USE ONE PAGE PER CONTAMINANT, do not leave empty rows between samples
Do not enter samples with soil concentrations at or below the reporting limit
When leachate concentration is non-detect, enter the aqueous reporting limit
Enter site-specific dilution-attenuation factor (DAF) if desired

Data entry cells (do not skip rows)
Optional data entry
Calculated or locked cells
Indicates that Alternative Remediation Standard needs to be recalculated

Sample ID	Soil sample weight (kg)	Leachate Volume (L)	Total Soil Concentration (mg/kg)	SPLP Leachate Concentration (µg/L)	Final pH of Leachate (except VOCs)	Optional data				Kd (L/kg)	% Contaminant in Leachate	Field leachate concentration (µg/L)	Pass or fail?
						Sampling Depth (ft)	Soil Type	Organic Carbon (mg/kg)	Organic Carbon (%)				
SB-8-SO-14	0.1	2	5.7	28	7.34	8 - 10 (ft)				183.6	9.82	31.02	PASS
SB-10-SO-10-103	0.1	2	3.4	34	7.94	6.5 - 7 (ft)				80.0	20.00	42.41	PASS
B8-4-100	0.1	2	2.6	42	7.74					41.9	32.31	61.79	PASS
B8-8-2-102	0.1	2	6.9	58	7.63	9.5 - 10 (ft)				99.0	16.81	69.60	PASS
SB-10-SO-10	0.1	2	2.9	53	9.2	3 - 4 (ft)				34.7	36.55	83.12	PASS
B8-8-2-100	0.1	2	24	130	7.38	9.5 - 10 (ft)				164.6	10.83	145.64	PASS
SB-10-SO-10-103	0.1	2	5.3	110	7.83	4.5 - 5 (ft)				28.2	41.51	186.93	PASS
B8-8-2-102	0.1	2	22	180	8.11	7.8 - 8.3 (ft)				102.2	16.36	214.86	PASS
SB-10-SO-10	0.1	2	12	160	8.83	4 - 6 (ft)				55.0	26.67	217.50	PASS
SB-10-SO-10-100	0.1	2	29	280	7.38	6 - 6.5 (ft)				83.6	19.31	346.30	PASS
B8-8-2-101	0.1	2	22	270	7.95	7.8 - 8.3 (ft)				61.5	24.55	356.84	PASS
B8-4-102	0.1	2	83	470	7.99					156.6	11.33	529.45	PASS
B8-8-2-100	0.1	2	20	460	8.17	7.8 - 8.3 (ft)				23.5	46.00	845.67	PASS

SPLP RESULTS for

OPTION 1a: All adjusted leachate concentrations are below the leachate criterion

REMEDIATION STANDARD = 83 mg/kg

OPTION 1b: Simple inspection of tabulated results to find highest acceptable standard
EVERYTHING PASSED, OPTION 1b NOT VALID

OPTION 2: Remediation standard using site-specific Kd value
Kd ratio = 7.82, AVERAGING Kds OK
Kd USED FOR CALCULATING STANDARD = 85.72 L/kg
result before rounding = 85.8873 mg/kg
REMEDIATION STANDARD = 83 mg/kg (controlled by maximum soil concentration)

OPTION 3: Remediation standard using linear regression
Number of points = 13
Soil concentration midrange = 42.8
Number of points above midrange = 1
Enough points above midrange? NO
R-Square high enough? NO

Leachate criterion within range of leachate concentrations? NO
OPTION 3 NOT VALID

NJDEP SPLP Spreadsheet, V3.1, November 2013

Case name/area of concern:	Former Delphi Interior and Lighting Systems Division
Case number:	E97070
Sampling date:	9/12-16/2016
Contaminant:	Trichloroethene (TCE) (Trichloroethyle
CAS No:	79-01-6
Water solubility (mg/L)	1.10E+03
Aqueous reporting limit (µg/L):	1.00E+00
Soil reporting limit (mg/kg):	5.00E-03
Health-based GWQC (µg/L)	1.00E+00
DAF (20, or site-specific if approved):	**20**
Leachate Criterion (µg/L):	2.00E+01
Henry's law constant (dimensionless):	4.22E-01

CALCULATE SITE SPECIFIC IGW STANDARD

Reset Spreadsheet

Print Results

Instructions

CLICK HERE if chemical is not on drop-down list, or to enter alternate GWQC

Print to file

Exit

NOTE:

USE ONE PAGE PER CONTAMINANT, do not leave empty rows between samples

Do not enter samples with soil concentrations at or below the reporting limit

When leachate concentration is non-detect, enter the aqueous reporting limit

Enter site-specific dilution-attenuation factor (DAF) if desired

Data entry cells (do not skip rows)

Optional data entry

Calculated or locked cells

Indicates that Alternative Remediation Standard needs to be recalculated

Sample ID	Soil sample weight (kg)	Leachate Volume (L)	Total Soil Concentration (mg/kg)	SPLP Leachate Concentration (µg/L)	Final pH of Leachate (except VOCs)	Optional data				Kd (L/kg)	% Contaminant in Leachate	Field leachate concentration (µg/L)	Pass or fail?
						Sampling Depth (ft)	Soil Type	Organic Carbon (mg/kg)	Organic Carbon (%)				
SB-AOC010-2013-100	0.1	2	0.097	0.17	9.47	5 - 5.5 (ft)				550.6	3.51	0.17	PASS
SB-AOC8B-2013-105	0.1	2	0.13	1.1	9.03	9.5 - 10 (ft)				98.2	16.92	1.32	PASS
SB-F10R	0.1	2	0.064	2.6	6.62	1.5 - 2 (ft)				4.6	81.25	13.28	PASS
SB-C8R	0.1	2	35	260	10.4	2 - 2.5 (ft)				114.6	14.86	304.83	FAIL

SPLP RESULTS for

OPTION 1a: All adjusted leachate concentrations are below the leachate criterion

OPTION 1a NOT VALID

OPTION 1b: Simple inspection of tabulated results to find highest acceptable standard

REMEDIATION STANDARD = 0.13 mg/kg

OPTION 2: Remediation standard using site-specific Kd value

Kd ratio = 119.29, USE MINIMUM Kd

Kd USED FOR CALCULATING STANDARD = 4.62 L/kg

result before rounding = 0.0964 mg/kg

REMEDIATION STANDARD = 0.1 mg/kg

OPTION 3: Remediation standard using linear regression

Number of points = 3

(points were eliminated because leachate concentrations were not above the aqueous reporting limit)

Soil concentration midrange = 17.53

Number of points above midrange = 1

Enough points above midrange? NO

R-Square high enough? YES

Leachate criterion within range of leachate concentrations? YES

OPTION 3 NOT VALID

NJDEP SPLP Spreadsheet, V3.1, November 2013

Case name/area of concern:	Former Delphi Interior and Lighting Systems Division
Case number:	E97070
Sampling date:	9/12-16/2016
Contaminant:	Vinyl chloride
CAS No:	75-01-4
Water solubility (mg/L)	2.76E+03
Aqueous reporting limit (µg/L):	1.00E+00
Soil reporting limit (mg/kg):	5.00E-03
Health-based GWQC (µg/L)	8.00E-02
DAF (20, or site-specific if approved):	20
Leachate Criterion (µg/L):	2.00E+00 adjusted from 1.6
Henry's law constant (dimensionless):	1.11E+00

CALCULATE SITE SPECIFIC IGW STANDARD

Reset Spreadsheet

Print Results

Instructions

CLICK HERE if chemical is not on drop-down list, or to enter alternate GWQC

Print to file

Exit

NOTE:

USE ONE PAGE PER CONTAMINANT, do not leave empty rows between samples

Do not enter samples with soil concentrations at or below the reporting limit

When leachate concentration is non-detect, enter the aqueous reporting limit

Enter site-specific dilution-attenuation factor (DAF) if desired

Data entry cells (do not skip rows)

Optional data entry

Calculated or locked cells

Indicates that Alternative Remediation Standard needs to be recalculated

Sample ID	Soil sample weight (kg)	Leachate Volume (L)	Total Soil Concentration (mg/kg)	SPLP Leachate Concentration (µg/L)	Final pH of Leachate (except VOCs)	Optional data				Kd (L/kg)	% Contaminant in Leachate	Field leachate concentration (µg/L)	Pass or fail?
						Sampling Depth (ft)	Soil Type	Organic Carbon (mg/kg)	Organic Carbon (%)				
SB-7-SO-3-101R	0.1	2	0.06	0.49	8.49	1.5 - 2 (ft)				102.4	16.33	0.49	PASS
ISO5-103R	0.1	2	0.08	3.4	7.59	9.5 - 10 (ft)				3.5	85.00	20.96	FAIL
ISO5/ISO5-100R	0.1	2	0.31	14	7.77	5 - 5.5 (ft)				2.1	90.32	127.60	FAIL

SPLP RESULTS for

OPTION 1a: All adjusted leachate concentrations are below the leachate criterion

OPTION 1a NOT VALID

OPTION 1b: Simple inspection of tabulated results to find highest acceptable standard

REMEDIATION STANDARD = 0.06 mg/kg

OPTION 2: Remediation standard using site-specific Kd value

Kd ratio = 47.81, USE MINIMUM Kd

Kd USED FOR CALCULATING STANDARD = 2.14 L/kg

result before rounding = 0.0049 mg/kg

REMEDIATION STANDARD = 0.005 mg/kg (controlled by soil PQL)

OPTION 3: Remediation standard using linear regression

Number of points = 2

(points were eliminated because leachate concentrations were not above the aqueous reporting limit)

Less than three points with leachate concentrations above the aqueous reporting limit

LINEAR REGRESSION CANNOT BE CONDUCTED

Chromium Evaluation

TABLE I-1
COMPARISON OF TOTAL CHROMIUM TO HEXAVALENT CHROMIUM CONCENTRATIONS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

					Chromium VI (mg/kg)		Total Chromium (mg/kg)	
Location	AOC	Date	Sample Depth (ft bgs)	Remedial Action	Concentration	Detection	Concentration	Detection
~~PL06-02~~	~~AOC-01C~~	~~3/17/2004~~	~~3.5 - 4~~	~~Excavated~~	~~4920~~	~~Y~~	~~67500~~	~~Y~~
~~PL06-03~~	~~AOC-01C~~	~~3/17/2004~~	~~3 - 3.5~~	~~Excavated~~	~~12200~~	~~Y~~	~~13900~~	~~Y~~
~~SB-AOC10-2013-102~~	~~AOC-10~~	~~2/22/2013~~	~~9.5 - 10~~	~~Not Excavated~~	~~104~~	~~Y~~	~~11900~~	~~Y~~
~~PL07-02~~	~~AOC-01C~~	~~3/18/2004~~	~~3 - 3.5~~	~~Not Excavated~~	~~993~~	~~Y~~	~~5080~~	~~Y~~
SB-AOC10-2013-119	AOC-10	2/21/2013	4 - 4.5	Not Excavated	9.3	Y	4500	Y
SB-AOC10-2013-106	AOC-10	2/22/2013	5 - 5.5	Not Excavated	4.6	Y	3590	Y
SB-AOC10-2013-124	AOC-10	2/21/2013	3.5 - 4	Not Excavated	3.9	Y	2850	Y
PL06-105	AOC-01C	12/7/2010	3.5 - 4	Excavated	182	Y	2280	Y
SB-10-SO-209	AOC-10	2/6/2014	9.5 - 10	Not Excavated	4	Y	2260	Y
SB-AOC10-2013-122	AOC-10	2/21/2013	0 - 0.5	Not Excavated	1.8	Y	2040	Y
PL06-107	AOC-01C	12/7/2010	0.5 - 1	Excavated	115	Y	1880	Y
PL06-105	AOC-01C	12/7/2010	0.5 - 1	Excavated	163	Y	1860	Y
TP9-3-203	AOC-09	4/27/2012	2.5 - 3	Not Excavated	0.4	Y	1540	Y
SB-AOC10-2013-121	AOC-10	2/21/2013	0 - 0.5	Not Excavated	2.5	Y	1470	Y
SB-AOC10-2013-127	AOC-10	2/21/2013	3.5 - 4	Not Excavated	0.72	Y	1340	Y
SB-AOC10-2013-113	AOC-10	2/22/2013	4.5 - 5	Not Excavated	0.92	Y	1170	Y
PL07-04	AOC-01C	3/18/2004	8 - 8.5	Not Excavated	4.2	Y	1100	Y
TP7-5	AOC-07B	1/10/2008	0 - 0.5	Excavated	51	Y	1100	Y
PL12-06	AOC-01C	3/17/2004	4.5 - 5	Not Excavated	349	Y	1010	Y
TP7-3	AOC-07B	1/10/2008	9.5 - 10	Not Excavated	18.8	Y	977	Y
PL07-102	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	101	Y	926	Y
SB-AOC10-2013-124	AOC-10	2/21/2013	0.5 - 4	Not Excavated	2.7	Y	876	Y
SB-AOC10-2013-102	AOC-10	2/22/2013	0 - 0.5	Not Excavated	0.73	Y	864	Y
PL06-106	AOC-01C	12/7/2010	3.5 - 4	Excavated	137	Y	857	Y
PL06-01	AOC-01C	3/17/2004	3 - 3.5	Excavated	167	Y	853	Y
PL12-08	AOC-01C	3/17/2004	4.5 - 5	Not Excavated	110	Y	840	Y
PL06-01	AOC-01C	3/17/2004	6.5 - 7	Excavated	36	Y	742	Y
PL07-102	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	67.1	Y	731	Y
SB-AOC10-2013-118	AOC-10	2/21/2013	4 - 4.5	Not Excavated	46	Y	690	Y
PL06-104	AOC-01C	12/7/2010	0.5 - 1	Excavated	69.8	Y	675	Y
B8-3	AOC-10	7/14/1998	4.5 - 5	Not Excavated	11	Y	640	Y
SB-AOC10-2013-115	AOC-10	2/21/2013	9.5 - 10	Not Excavated	1.9	Y	568	Y
SB-AOC10-2013-108	AOC-10	2/22/2013	6.5 - 7	Not Excavated	1.9	Y	548	Y
PL06-104	AOC-01C	12/7/2010	3.5 - 4	Excavated	143	Y	546	Y
PL07-102	AOC-01C	12/3/2010	3.5 - 4	Not Excavated	79.4	Y	546	Y
SB-AOC10-2013-107	AOC-10	2/22/2013	6.5 - 7	Not Excavated	2	Y	546	Y
JSO22	AOC-08B	10/3/2002	0 - 0.5	Excavated	10.3	Y	539	Y
PL12-110B	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	22.9	Y	488	Y
TP7-4	AOC-07B	1/10/2008	0 - 0.5	Not Excavated	13.5	Y	485	Y
SB-AOC10-2013-128	AOC-10	2/21/2013	0 - 0.5	Not Excavated	2.2	Y	449	Y
SB-10-SO-214	AOC-10	2/7/2014	9.5 - 10	Not Excavated	0.94	Y	408	Y
PL12-112	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	57.1	Y	400	Y
PL12-113	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	118	Y	377	Y
PL05-102	AOC-01C	12/6/2010	0.5 - 1	Not Excavated	18.1	Y	373	Y
PL06-106	AOC-01C	12/7/2010	0.5 - 1	Excavated	8.2	Y	351	Y
PL06-107	AOC-01C	12/7/2010	3.5 - 4	Excavated	130	Y	337	Y
WSO3	AOC-11	10/2/2002	0 - 0.5	Excavated	60.6	Y	337	Y
TP7-5	AOC-07B	1/10/2008	10 - 10.5	Not Excavated	47	Y	327	Y
WSO5	AOC-10	10/2/2002	1 - 1.5	Excavated	40.6	Y	318	Y
ISO7	AOC-07A	9/12/2002	1 - 1.5	Not Excavated	3.6	Y	316	Y
PL06-106	AOC-01C	12/7/2010	6.5 - 7	Not Excavated	88.3	Y	292	Y
ZSO5	AOC-08A	9/27/2002	11 - 11.5	Not Excavated	57.1	Y	288	Y
PL12-112	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	68.2	Y	281	Y
BF-S1	AOC-11	9/25/2000	0 - 0.5	Excavated	31.9	Y	279	Y
SB-AOC10-2013-109	AOC-10	2/22/2013	3.5 - 4	Not Excavated	3.2	Y	271	Y
SB-AOC10-2013-120	AOC-10	2/21/2013	4 - 4.5	Not Excavated	3.1	Y	252	Y
ISO14	AOC-12	6/4/2003	0 - 0.5	Excavated	19.5	Y	246	Y
PL12-111B	AOC-01C	12/2/2010	0.5 - 1	Not Excavated	30.7	Y	231	Y
PL10-11	AOC-01D	3/5/2004	3 - 3.5	Not Excavated	5.9	Y	224	Y
SB-AOC10-2013-119	AOC-10	2/21/2013	0 - 0.5	Not Excavated	3.7	Y	208	Y
SB-AOC10-2013-123	AOC-10	2/21/2013	0 - 0.5	Not Excavated	0.72	Y	203	Y
PL07-105	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	3.9	Y	192	Y

TABLE I-1
COMPARISON OF TOTAL CHROMIUM TO HEXAVALENT CHROMIUM CONCENTRATIONS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

					Chromium VI (mg/kg)		Total Chromium (mg/kg)	
Location	AOC	Date	Sample Depth (ft bgs)	Remedial Action	Concentration	Detection	Concentration	Detection
PL12-111B	AOC-01C	12/2/2010	4.5 - 5	Not Excavated	58	Y	184	Y
WSO4	AOC-11	10/2/2002	0 - 0.5	Excavated	29.2	Y	152	Y
SB-AOC10-2013-120	AOC-10	2/21/2013	7.5 - 8	Not Excavated	5	Y	149	Y
PL06-107	AOC-01C	12/7/2010	6.5 - 7	Not Excavated	90.2	Y	143	Y
BF-S3	AOC-11	9/25/2000	0 - 0.5	Excavated	12.2	Y	141	Y
PL06-104	AOC-01C	12/7/2010	6.5 - 7	Not Excavated	55.5	Y	139	Y
PL06-105	AOC-01C	12/7/2010	6.5 - 7	Not Excavated	82	Y	134	Y
ZSO5	AOC-08A	9/27/2002	8.5 - 9	Not Excavated	11.2	Y	128	Y
PL10-100	AOC-01D	12/16/2010	3 - 3.5	Not Excavated	1.9	Y	127	Y
JSO6	AOC-08A	9/19/2002	0.5 - 1	Not Excavated	17.8	Y	120	Y
PL07-100	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	5.5	Y	112	Y
PL12-08	AOC-01C	3/17/2004	8 - 8.5	Not Excavated	94.7	Y	112	Y
ISO11	AOC-07B	9/25/2002	0.5 - 1	Not Excavated	7.7	Y	112	Y
SB-AOC10-2013-110	AOC-10	2/22/2013	0 - 0.5	Not Excavated	43.6	Y	112	Y
SB-AOC10-2013-129	AOC-10	2/21/2013	3.5 - 4	Not Excavated	8.2	Y	111	Y
TP9-2-202	AOC-09	4/26/2012	2.5 - 3	Not Excavated	0.76	Y	108	Y
PL12-113	AOC-01C	12/3/2010	8 - 8.5	Not Excavated	62.5	Y	107	Y
JSO5	AOC-08A	9/19/2002	0.5 - 1	Not Excavated	6.4	Y	103	Y
SB-AOC8B-2013-101	AOC-08B	2/25/2013	9.5 - 10	Not Excavated	1.2	Y	102	Y
SB-AOC10-2013-120	AOC-10	2/21/2013	0 - 0.5	Not Excavated	0.61	Y	100	Y
TP7-3	AOC-07B	1/10/2008	0 - 0.5	Not Excavated	3.1	Y	98.2	Y
BF-S2	AOC-11	9/25/2000	0 - 0.5	Excavated	7.3	Y	91.7	Y
SB-AOC10-2013-123	AOC-10	2/21/2013	3.5 - 4	Not Excavated	3.5	Y	88.7	Y
SB-AOC10-2013-110	AOC-10	2/22/2013	4.5 - 5	Not Excavated	2	Y	84.4	Y
PL05-102	AOC-01C	12/6/2010	3.5 - 4	Not Excavated	14.2	Y	81.7	Y
SB-AOC8B-2013-107	AOC-08B	2/25/2013	7.5 - 8	Not Excavated	1.3	Y	68.2	Y
ZB-2	AOC-01A	3/4/2004	2.75 - 3	Not Excavated	4.4	Y	68	Y
RW-101	AOC-01D	5/31/2012	3.5 - 4	Not Excavated	2.6	Y	66.2	Y
L1-1	AOC-01A	3/9/2004	4.5 - 5	Not Excavated	18.2	Y	63.5	Y
PL06-103	AOC-01C	12/7/2010	3.5 - 4	Not Excavated	39.2	Y	61.6	Y
SB-AOC8B-2013-104	AOC-08B	2/25/2013	1 - 1.5	Not Excavated	0.62	Y	60.8	Y
PL07-104	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	1.7	Y	59.5	Y
WSO5	AOC-10	10/2/2002	0 - 0.5	Excavated	5.8	Y	59.3	Y
PL10-14	AOC-01D	3/5/2004	2.75 - 3	Not Excavated	8.2	Y	58.7	Y
WSO7	AOC-10	10/11/2002	1 - 1.5	Not Excavated	3.2	Y	58.6	Y
PL12-112	AOC-01C	12/3/2010	8 - 8.5	Not Excavated	16.6	Y	56.2	Y
SB-AOC8B-2013-102	AOC-08B	2/25/2013	0 - 0.5	Not Excavated	0.82	Y	53	Y
PL05-202	AOC-01C	4/25/2012	0.5 - 1	Excavated	2.4	Y	51.4	Y
SB-10-SO-214	AOC-10	2/7/2014	11.5 - 12	Not Excavated	0.85	Y	50	Y
SB-AOC10-2013-122	AOC-10	2/21/2013	6.5 - 7	Not Excavated	0.66	Y	46	Y
MW-80	AOC-01C	5/21/2012	6.5 - 7	Not Excavated	0.14	Y	40.1	Y
TP7-2	AOC-07A	1/10/2008	10 - 10.5	Not Excavated	3.2	Y	39.2	Y
PL12-108	AOC-01C	12/2/2010	0.5 - 1	Not Excavated	1.3	Y	38.2	Y
PL12-07	AOC-01C	3/4/2004	0.5 - 1	Not Excavated	10.2	Y	37.5	Y
PL12-108	AOC-01C	12/2/2010	8 - 8.5	Not Excavated	14.9	Y	36.3	Y
PL11-03	AOC-01A	3/17/2004	3 - 3.5	Not Excavated	2.6	Y	35.7	Y
SB-AOC8B-2013-101	AOC-08B	2/25/2013	1 - 1.5	Not Excavated	0.82	Y	35.4	Y
PL06-103	AOC-01C	12/7/2010	6.5 - 7	Not Excavated	7.1	Y	35.2	Y
SB-AOC10-2013-129	AOC-10	2/21/2013	0 - 0.5	Not Excavated	2.8	Y	34.4	Y
PL06-100	AOC-01C	12/7/2010	6.5 - 7	Not Excavated	1.3	Y	34.2	Y
PL07-105	AOC-01C	12/3/2010	3.5 - 4	Not Excavated	3.5	Y	34.1	Y
SB-10-SO-208	AOC-10	2/6/2014	9.5 - 10	Not Excavated	0.82	Y	33.4	Y
ZB-4	AOC-01A	3/4/2004	2.75 - 3	Not Excavated	3.7	Y	32.7	Y
PL12-109	AOC-01C	12/2/2010	8 - 8.5	Not Excavated	6	Y	31.6	Y
GS08-200	AOC-02	4/24/2012	0.5 - 1	Not Excavated	2.1	Y	31.2	Y
PL10-17	AOC-01D	3/17/2004	2.5 - 3	Not Excavated	3.7	Y	30.9	Y
PL10-102	AOC-01D	12/6/2010	3 - 3.5	Not Excavated	1.8	Y	30.8	Y
WSO6	AOC-10	10/11/2002	0 - 0.5	Not Excavated	3.3	Y	29.8	Y
PL10-102	AOC-01D	12/6/2010	0.5 - 1	Not Excavated	3.2	Y	29.6	Y
PL05-201	AOC-01C	4/25/2012	2.5 - 3	Not Excavated	0.49	Y	28.9	Y
SB-10-SO-210	AOC-10	2/6/2014	9.5 - 10	Not Excavated	1.4	Y	28	Y
JSO11	AOC-08B	9/20/2002	0.5 - 1	Not Excavated	7.3	Y	27.1	Y

TABLE I-1
COMPARISON OF TOTAL CHROMIUM TO HEXAVALENT CHROMIUM CONCENTRATIONS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

					Chromium VI (mg/kg)		Total Chromium (mg/kg)	
Location	AOC	Date	Sample Depth (ft bgs)	Remedial Action	Concentration	Detection	Concentration	Detection
PL05-200	AOC-01C	4/25/2012	2.5 - 3	Not Excavated	2.1	Y	26.8	Y
PL12-109	AOC-01C	12/2/2010	0.5 - 1	Not Excavated	1.1	Y	26.4	Y
PL12-110B	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	3	Y	26.4	Y
MW-80	AOC-01C	5/21/2012	3.5 - 4	Not Excavated	0.14	Y	25.4	Y
PL05-102	AOC-01C	12/6/2010	6.5 - 7	Not Excavated	0.8	Y	25.4	Y
JSO23	AOC-08B	10/3/2002	0 - 0.5	Not Excavated	4.2	Y	25.3	Y
JSO12	AOC-08B	9/20/2002	0.5 - 1	Not Excavated	4.8	Y	24.5	Y
PL10-100	AOC-01D	12/16/2010	0.5 - 1	Not Excavated	1.5	Y	24.4	Y
TP9-3-203	AOC-09	4/27/2012	9 - 9.5	Not Excavated	0.19	Y	24.3	Y
PL06-100	AOC-01C	12/7/2010	3.5 - 4	Not Excavated	1.6	Y	23.6	Y
PL10-02	AOC-01D	3/11/2004	4.5 - 5	Not Excavated	2.5	Y	23.5	Y
PL06-100	AOC-01C	12/7/2010	0.5 - 1	Not Excavated	0.63	Y	22	Y
PL07-104	AOC-01C	12/3/2010	3.5 - 4	Not Excavated	0.65	Y	21.9	Y
PL12-107B	AOC-01C	12/2/2010	8 - 8.5	Not Excavated	1.6	Y	21.6	Y
PL12-110B	AOC-01C	12/3/2010	8 - 8.5	Not Excavated	1.2	Y	21.6	Y
MW-81	AOC-01C	5/22/2012	3.5 - 4	Not Excavated	0.81	Y	21.5	Y
SB-11-SO-201	AOC-11	4/25/2012	0 - 0.5	Not Excavated	1.4	Y	20.9	Y
SB-AOC8B-2013-109	AOC-08B	2/25/2013	1 - 1.5	Not Excavated	0.62	Y	20.3	Y
SB-AOC10-2013-118	AOC-10	2/21/2013	7.5 - 8	Not Excavated	0.78	Y	19.6	Y
B9-16-200	AOC-09	4/25/2012	5 - 5.5	Not Excavated	0.21	Y	19.5	Y
PL05-202	AOC-01C	4/25/2012	2.5 - 3	Excavated	0.47	Y	19	Y
PL12-100	AOC-01C	12/3/2010	8 - 8.5	Not Excavated	0.75	Y	18.2	Y
ZSO5	AOC-08A	9/27/2002	13 - 13.5	Not Excavated	2.9	Y	17.5	Y
PL12-114	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	2	Y	17.3	Y
MW-80	AOC-01C	5/21/2012	0.5 - 1	Not Excavated	0.2	Y	16.5	Y
PL12-104	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	0.65	Y	16.4	Y
PL10-05	AOC-01D	3/11/2004	2.5 - 3	Not Excavated	2.6	Y	15.6	Y
PL05-200	AOC-01C	4/25/2012	0.5 - 1	Not Excavated	0.4	Y	15.1	Y
PL05-201	AOC-01C	4/25/2012	0.5 - 1	Not Excavated	1.4	Y	15.1	Y
PL12-115	AOC-01C	12/3/2010	6.5 - 7	Not Excavated	0.55	Y	14.7	Y
SB-11-SO-200	AOC-11	4/25/2012	0 - 0.5	Not Excavated	0.81	Y	12.9	Y
PL10-13	AOC-01D	3/17/2004	3 - 3.5	Not Excavated	3.2	Y	11.5	Y
ZSO5	AOC-08A	9/27/2002	15 - 15.5	Not Excavated	3	Y	10	Y
WSO4	AOC-11	10/2/2002	2 - 2.5	Not Excavated	3.7	Y	8.4	Y
PL11-01	AOC-01A	3/18/2004	5.5 - 6	Not Excavated	2.2	Y	5.4	Y
B8-8-2	AOC-08B	1/23/2008	19.5 - 20	Not Excavated	3	Y	3.3	Y
SB-AOC8B-2013-104	AOC-08B	2/25/2013	19.5 - 20	Not Excavated	0.89	Y	3.3	Y
SB-AOC10-2013-115	AOC-10	2/21/2013	4.5 - 5	Not Excavated	7.4	N	10800	Y
B8-4	AOC-08B	7/14/1998	12-Nov	Not Excavated	30	N	2800	Y
B8-4	AOC-08B	7/14/1998	8-Jun	Not Excavated	14	N	2400	Y
SB-AOC8B-2013-105	AOC-08B	2/25/2013	9.5 - 10	Not Excavated	2.5	N	1520	Y
B7-2	AOC-07B	7/9/1998	3 - 3.5	Not Excavated	0.13	N	1300	Y
SB-AOC10-2013-126	AOC-10	2/21/2013	0 - 0.5	Not Excavated	2.5	N	1160	Y
SB-AOC10-2013-101	AOC-10	2/22/2013	5 - 5.5	Not Excavated	2.7	N	916	Y
B8-8	AOC-08B	7/15/1998	12 - 12.5	Not Excavated	16	N	840	Y
SB-AOC10-2013-116	AOC-10	2/21/2013	4.5 - 5	Not Excavated	2.6	N	800	Y
B8-8-1	AOC-08B	1/17/2008	12 - 12.5	Not Excavated	3.58	N	792	Y
B8-6	AOC-08B	7/14/1998	8-Jun	Not Excavated	15	N	730	Y
SB-AOC10-2013-118	AOC-10	2/21/2013	0 - 0.5	Not Excavated	2.6	N	671	Y
B8-8	AOC-08B	7/15/1998	10-Sep	Not Excavated	13	N	650	Y
SB-AOC8B-2013-104	AOC-08B	2/25/2013	9.5 - 10	Not Excavated	2.9	N	617	Y
SB-AOC10-2013-117	AOC-10	2/21/2013	4 - 4.5	Not Excavated	2.7	N	617	Y
SB-AOC10-2013-100	AOC-10	2/22/2013	5 - 5.5	Not Excavated	2.6	N	575	Y
B8-8-1	AOC-08B	1/17/2008	7.75 - 8.25	Not Excavated	2.68	N	563	Y
SB-AOC10-2013-111	AOC-10	2/22/2013	0 - 0.5	Not Excavated	2.7	N	530	Y
SB-AOC10-2013-109	AOC-10	2/22/2013	7.5 - 9	Not Excavated	2.7	N	518	Y
SB-AOC10-2013-100	AOC-10	2/22/2013	0 - 0.5	Not Excavated	2.7	N	511	Y
B8-2	AOC-10	7/13/1998	3.5 - 4	Not Excavated	12	N	500	Y
SB-AOC10-2013-104	AOC-10	2/22/2013	9.5 - 10	Not Excavated	2.6	N	469	Y
ISO7	AOC-07A	9/12/2002	8.5 - 9	Not Excavated	2	N	457	Y
SB-AOC10-2013-103	AOC-10	2/22/2013	5 - 5.5	Not Excavated	2.4	N	453	Y
SB-10-SO-212	AOC-10	2/7/2014	9.5 - 10	Not Excavated	2.6	N	428	Y

TABLE I-1
COMPARISON OF TOTAL CHROMIUM TO HEXAVALENT CHROMIUM CONCENTRATIONS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

					Chromium VI (mg/kg)		Total Chromium (mg/kg)	
Location	AOC	Date	Sample Depth (ft bgs)	Remedial Action	Concentration	Detection	Concentration	Detection
SB-AOC10-2013-103	AOC-10	2/22/2013	7.5 - 8	Not Excavated	2.8	N	426	Y
SB-AOC10-2013-128	AOC-10	2/21/2013	3.5 - 4	Not Excavated	2.5	N	390	Y
SB-AOC10-2013-101	AOC-10	2/22/2013	0 - 0.5	Not Excavated	3.1	N	385	Y
SB-AOC10-2013-111	AOC-10	2/22/2013	9.5 - 10	Not Excavated	2.5	N	373	Y
SB-AOC10-2013-111	AOC-10	2/22/2013	4.5 - 5	Not Excavated	2.6	N	371	Y
B10-3	AOC-10	7/16/1998	4-Feb	Not Excavated	15	N	350	Y
PL07-107	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	2.3	N	327	Y
B7-3	AOC-07A	7/9/1998	3.5 - 4	Not Excavated	13	N	300	Y
SB-AOC10-2013-125	AOC-10	2/21/2013	0 - 0.5	Not Excavated	2.4	N	276	Y
ISO5	AOC-07A	9/12/2002	1 - 1.5	Not Excavated	2	N	254	Y
SB-AOC10-2013-127	AOC-10	2/21/2013	0 - 0.5	Not Excavated	2.4	N	225	Y
TP7-1	AOC-07B	1/10/2008	0 - 0.5	Not Excavated	2.38	N	207	Y
SB-10-SO-213	AOC-10	2/7/2014	9.5 - 10	Not Excavated	2.6	N	171	Y
BF-S14	AOC-11	10/23/2000	0 - 0.5	Excavated	2	N	169	Y
SB-AOC10-2013-117	AOC-10	2/21/2013	0 - 0.5	Not Excavated	2.7	N	160	Y
ISO15	AOC-12	6/4/2003	0 - 0.5	Excavated	2	N	160	Y
B8-5	AOC-08A	7/14/1998	0 - 0.5	Not Excavated	11	N	140	Y
B7-9	AOC-12	7/31/1998	0 - 0.5	Excavated	13	N	140	Y
SB-AOC10-2013-116	AOC-10	2/21/2013	0 - 0.5	Not Excavated	2.6	N	128	Y
ISO6	AOC-07A	9/12/2002	1 - 1.5	Not Excavated	2	N	127	Y
SB-AOC10-2013-108	AOC-10	2/22/2013	3.5 - 4	Not Excavated	2.3	N	122	Y
B8-8	AOC-08B	7/15/1998	0 - 0.5	Not Excavated	12	N	120	Y
SB-10-SO-213	AOC-10	2/7/2014	11.5 - 12	Not Excavated	2.3	N	119	Y
SB-AOC10-2013-126	AOC-10	2/21/2013	3.5 - 4	Not Excavated	2.4	N	118	Y
SB-AOC8B-2013-107	AOC-08B	2/25/2013	1 - 1.5	Not Excavated	2.3	N	98.2	Y
SB-AOC8B-2013-102	AOC-08B	2/25/2013	19.5 - 20	Not Excavated	2.3	N	98	Y
SB-AOC8B-2013-102	AOC-08B	2/25/2013	1 - 1.5	Not Excavated	2.2	N	96.6	Y
SB-AOC10-2013-125	AOC-10	2/21/2013	3.5 - 4	Not Excavated	2.5	N	96.4	Y
ISO11	AOC-07B	9/25/2002	4 - 4.5	Not Excavated	2	N	94.8	Y
TP7-2	AOC-07A	1/10/2008	0 - 0.5	Not Excavated	2.29	N	94.3	Y
ISO20	AOC-12	6/4/2003	0 - 0.5	Not Excavated	2	N	90.7	Y
B10-5	AOC-10	7/16/1998	0 - 0.5	Excavated	12	N	90	Y
ISO4	AOC-07A	9/12/2002	0.5 - 1	Not Excavated	2	N	87.2	Y
B8-2	AOC-10	7/13/1998	0 - 0.5	Not Excavated	11	N	86	Y
B8-2	AOC-10	7/13/1998	10 - 10.5	Not Excavated	13	N	86	Y
SB-AOC10-2013-107	AOC-10	2/22/2013	3.5 - 4	Not Excavated	2.3	N	83.2	Y
WSO10	OFF-SITE	6/2/2003	0 - 0.5	Not Excavated	2	N	77.3	Y
MW-22	AOC-12	7/8/1998	12 - 12.5	Not Excavated	14	N	76	Y
PL07-01	AOC-01C	3/18/2004	3 - 3.5	Not Excavated	2	N	75.9	Y
SB-AOC8B-2013-105	AOC-08B	2/25/2013	1 - 1.5	Not Excavated	2.3	N	74.5	Y
SB-AOC10-2013-105	AOC-10	2/22/2013	5 - 5.5	Not Excavated	2.4	N	69.2	Y
B8-8-2	AOC-08B	1/23/2008	9 - 9.5	Not Excavated	2.39	N	68.7	Y
B10-2	AOC-09	7/16/1998	4-Feb	Not Excavated	12	N	67	Y
PL07-04	AOC-01C	3/18/2004	4 - 4.5	Not Excavated	2	N	66.7	Y
SB-AOC10-2013-104	AOC-10	2/22/2013	0 - 0.5	Not Excavated	2.4	N	66.3	Y
SB-AOC10-2013-108	AOC-10	2/22/2013	0 - 0.5	Not Excavated	2.3	N	62	Y
SB-AOC10-2013-115	AOC-10	2/21/2013	0 - 0.5	Not Excavated	2.5	N	61.3	Y
B8-6	AOC-08B	7/14/1998	15.5 - 16	Not Excavated	12	N	59	Y
SB-AOC10-2013-103	AOC-10	2/22/2013	0 - 0.5	Not Excavated	2.4	N	57.1	Y
MW-22	AOC-12	7/8/1998	8 - 8.5	Not Excavated	12	N	57	Y
ISO16	AOC-12	6/4/2003	0 - 0.5	Not Excavated	2	N	55.9	Y
SB-AOC10-2013-114	AOC-10	2/22/2013	0 - 0.5	Not Excavated	2.4	N	55	Y
SB-AOC10-2013-113	AOC-10	2/22/2013	0 - 0.5	Not Excavated	2.2	N	52.1	Y
B8-5	AOC-08A	7/14/1998	7.5 - 8	Not Excavated	13	N	52	Y
SB-AOC8B-2013-100	AOC-08B	2/25/2013	0 - 0.5	Not Excavated	2.7	N	51.2	Y
PL10-108	AOC-01D	12/16/2010	0.5 - 1	Not Excavated	2.3	N	50	Y
SB-AOC10-2013-121	AOC-10	2/21/2013	3.5 - 4	Not Excavated	2.2	N	47.3	Y
ASO3	AOC-12	9/9/2002	0 - 0.5	Excavated	2	N	47.1	Y
B7-5	AOC-07B	7/10/1998	8 - 8.5	Not Excavated	13	N	47	Y
B10-4	AOC-09	7/16/1998	5 - 5.5	Not Excavated	12	N	46	Y
ZB-5	AOC-01A	3/5/2004	3 - 3.5	Not Excavated	2	N	45.7	Y
ZB-1-100	AOC-01A	12/16/2010	3 - 3.5	Not Excavated	2.3	N	45	Y

TABLE I-1
COMPARISON OF TOTAL CHROMIUM TO HEXAVALENT CHROMIUM CONCENTRATIONS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

					Chromium VI (mg/kg)		Total Chromium (mg/kg)	
Location	AOC	Date	Sample Depth (ft bgs)	Remedial Action	Concentration	Detection	Concentration	Detection
PL07-100	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	2.3	N	44.2	Y
MOA-B-BS3R	AOC-08A	1/17/2008	5.5 - 6	Not Excavated	2.36	N	44.1	Y
MW-22	AOC-12	7/8/1998	3.5 - 4	Not Excavated	11	N	44	Y
B8-7	AOC-08B	7/15/1998	0 - 0.5	Not Excavated	11	N	43	Y
SB-10-SO-208	AOC-10	2/6/2014	14.5 - 15	Not Excavated	2.6	N	42.5	Y
B7-3	AOC-07A	7/9/1998	10 - 10.5	Not Excavated	12	N	40	Y
B8-1	AOC-09	7/13/1998	3.5 - 4	Not Excavated	12	N	39	Y
ASO3	AOC-12	9/9/2002	0.5 - 1	Excavated	2	N	38.5	Y
SB-AOC8B-2013-109	AOC-08B	2/25/2013	19.5 - 20	Not Excavated	2.3	N	37.4	Y
JSO28	AOC-08A	6/3/2003	0 - 0.5	Not Excavated	2	N	37.3	Y
B7-1	AOC-07B	7/7/1998	0 - 0.5	Not Excavated	11	N	37	Y
B10-7	AOC-10	7/16/1998	3.5 - 4	Not Excavated	0.11	N	37	Y
SB-AOC10-2013-107	AOC-10	2/22/2013	0 - 0.5	Not Excavated	2.3	N	36.2	Y
RW-100	AOC-01D	5/31/2012	4.5 - 5	Not Excavated	2.3	N	36	Y
B8-5	AOC-08A	7/14/1998	11.5 - 12	Not Excavated	13	N	36	Y
SB-AOC10-2013-112	AOC-10	2/22/2013	0 - 0.5	Not Excavated	2.2	N	35.8	Y
B8-8-1	AOC-08B	1/17/2008	0 - 0.5	Not Excavated	2.4	N	35.5	Y
PL10-106	AOC-01D	12/16/2010	0.5 - 1	Not Excavated	2.3	N	35.3	Y
SB-AOC8B-2013-105	AOC-08B	2/25/2013	0 - 0.5	Not Excavated	2.3	N	35.3	Y
PL06-101	AOC-01C	12/7/2010	6.5 - 7	Not Excavated	2.4	N	35.2	Y
PL07-03	AOC-01C	3/18/2004	2.75 - 3.25	Not Excavated	2	N	34.8	Y
ZSO6-8	AOC-08A	9/27/2002	13 - 13.5	Not Excavated	2	N	34.8	Y
JSO20R	AOC-08A	1/17/2008	1.5 - 2	Not Excavated	2.31	N	34.7	Y
SB-AOC8B-2013-100	AOC-08B	2/25/2013	9.5 - 10	Not Excavated	2.4	N	34.7	Y
PL10-15	AOC-01D	3/17/2004	3 - 3.5	Not Excavated	2	N	34.6	Y
PL10-10	AOC-01D	3/5/2004	2.5 - 3	Not Excavated	2	N	34.1	Y
B8-8-4	AOC-08B	1/23/2008	12 - 12.5	Not Excavated	2.75	N	33.1	Y
PL12-01	AOC-01C	3/17/2004	4.5 - 5	Not Excavated	2	N	33	Y
PL10-101	AOC-01D	12/16/2010	0.5 - 1	Not Excavated	2.2	N	32.9	Y
PL12-105	AOC-01C	12/6/2010	8 - 8.5	Not Excavated	2.5	N	32.7	Y
B8-6	AOC-08B	7/14/1998	0 - 0.5	Not Excavated	11	N	32	Y
B8-7	AOC-08B	7/15/1998	10-Sep	Not Excavated	12	N	32	Y
B8-8-2	AOC-08B	1/23/2008	0 - 0.5	Not Excavated	2.31	N	32	Y
B10-6	AOC-09	7/16/1998	0 - 0.5	Not Excavated	12	N	32	Y
B10-5	AOC-10	7/16/1998	5 - 5.5	Not Excavated	12	N	32	Y
PL07-03	AOC-01C	3/18/2004	6 - 6.5	Not Excavated	2	N	31.7	Y
PL05-104	AOC-01C	12/6/2010	6.5 - 7	Not Excavated	2.5	N	31.1	Y
PL10-101	AOC-01D	12/16/2010	3 - 3.5	Not Excavated	2.2	N	31	Y
SB-AOC8B-2013-102	AOC-08B	2/25/2013	9.5 - 10	Not Excavated	2.5	N	31	Y
B10-8	AOC-10	7/17/1998	5.5 - 6	Not Excavated	12	N	31	Y
B8-3	AOC-10	7/14/1998	0 - 0.5	Not Excavated	11	N	31	Y
ASO8	AOC-12	9/11/2002	0 - 0.5	Excavated	2	N	30.9	Y
PL10-01	AOC-01D	3/11/2004	2.5 - 3	Not Excavated	2	N	30.6	Y
B8-8-2	AOC-08B	1/23/2008	12 - 12.5	Not Excavated	2.38	N	30.6	Y
SB-AOC10-2013-104	AOC-10	2/22/2013	5 - 5.5	Not Excavated	2.4	N	30	Y
SB-AOC8B-2013-100	AOC-08B	2/25/2013	19.5 - 20	Not Excavated	2.1	N	29.6	Y
ZB-1	AOC-01A	3/5/2004	2.75 - 3	Not Excavated	2	N	29.5	Y
SB-11-SO-201	AOC-11	4/25/2012	3.5 - 4	Not Excavated	0.47	N	29.5	Y
ASO32	AOC-12	7/23/2003	0 - 0.5	Excavated	2	N	29.2	Y
B7-5	AOC-07B	7/10/1998	12 - 12.5	Not Excavated	0.12	N	29	Y
B3-15	AOC-03	7/22/1998	0 - 0.5	Not Excavated	10	N	28	Y
B3-16	AOC-03	7/22/1998	0.5 - 1	Not Excavated	10	N	28	Y
B7-2	AOC-07B	7/9/1998	6 - 6.5	Not Excavated	13	N	28	Y
PL10-107	AOC-01D	12/16/2010	0.5 - 1	Not Excavated	2.3	N	27.4	Y
B3-4-200	AOC-03	4/23/2012	9.5 - 10	Not Excavated	0.48	N	27.4	Y
PL06-102	AOC-01C	12/7/2010	6.5 - 7	Not Excavated	2.3	N	27.2	Y
MOA-B-BS2R	AOC-08A	1/17/2008	5.5 - 6	Not Excavated	2.33	N	27.1	Y
SB-AOC10-2013-112	AOC-10	2/22/2013	9.5 - 10	Not Excavated	2.3	N	27.1	Y
SB-AOC10-2013-117	AOC-10	2/21/2013	7.5 - 8	Not Excavated	2.4	N	27.1	Y
PL12-05	AOC-01C	3/17/2004	4 - 4.5	Not Excavated	2	N	27	Y
ZSO6	AOC-08A	9/27/2002	0 - 0.5	Not Excavated	2	N	27	Y
B8-7	AOC-08B	7/15/1998	18 - 18.5	Not Excavated	12	N	27	Y

TABLE I-1
COMPARISON OF TOTAL CHROMIUM TO HEXAVALENT CHROMIUM CONCENTRATIONS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

					Chromium VI (mg/kg)		Total Chromium (mg/kg)	
Location	AOC	Date	Sample Depth (ft bgs)	Remedial Action	Concentration	Detection	Concentration	Detection
SB-AOC10-2013-106	AOC-10	2/22/2013	0 - 0.5	Not Excavated	2.4	N	27	Y
PL12-111B	AOC-01C	12/2/2010	8 - 8.5	Not Excavated	2.3	N	26.9	Y
PL05-107	AOC-01C	12/6/2010	6.5 - 7	Not Excavated	2.3	N	26.8	Y
B6-201	AOC-03	4/23/2012	0.5 - 1	Not Excavated	0.47	N	26.7	Y
SB-AOC10-2013-100	AOC-10	2/22/2013	9.5 - 10	Not Excavated	2.4	N	26.7	Y
PL07-106	AOC-01C	12/7/2010	4.5 - 5	Not Excavated	2.3	N	26.6	Y
ASO33	AOC-12	7/23/2003	0 - 0.5	Excavated	2	N	26.4	Y
PL05-100	AOC-01C	12/6/2010	6.5 - 7	Not Excavated	2.3	N	26.3	Y
PL10-104	AOC-01D	12/16/2010	3 - 3.5	Not Excavated	2.4	N	26.2	Y
SB-AOC10-2013-116	AOC-10	2/21/2013	9.5 - 10	Not Excavated	2.5	N	26.2	Y
PL12-106	AOC-01C	12/6/2010	8 - 8.5	Not Excavated	2.5	N	26.1	Y
B3-14	AOC-03	7/22/1998	0 - 0.5	Not Excavated	12	N	26	Y
B7-5	AOC-07B	7/10/1998	2.5 - 3	Not Excavated	12	N	26	Y
JSO14R	AOC-08A	1/17/2008	5.5 - 6	Not Excavated	2.32	N	25.9	Y
SB-AOC8B-2013-106	AOC-08B	2/25/2013	0 - 0.5	Not Excavated	2.3	N	25.8	Y
L1-2	AOC-01A	3/9/2004	5.5 - 6	Not Excavated	2	N	25.6	Y
PL05-106	AOC-01C	12/7/2010	6.5 - 7	Not Excavated	2.2	N	25.6	Y
B8-8-4	AOC-08B	1/23/2008	0 - 0.5	Not Excavated	2.28	N	25.6	Y
TK6-PE-3	AOC-01A	4/8/2008	11 - 11.5	Not Excavated	2	N	25.5	Y
PL07-103	AOC-01C	12/7/2010	0.5 - 1	Not Excavated	2.4	N	25.2	Y
ZSO6	AOC-08A	9/27/2002	8.5 - 9	Not Excavated	2	N	25.2	Y
PL05-103	AOC-01C	12/6/2010	3.5 - 4	Not Excavated	2.4	N	25.1	Y
PL07-103	AOC-01C	12/7/2010	4.5 - 5	Not Excavated	2.5	N	25.1	Y
B8-8-3	AOC-08B	1/18/2008	9 - 9.5	Not Excavated	2.38	N	24.8	Y
PL05-104	AOC-01C	12/6/2010	3.5 - 4	Not Excavated	2.5	N	24.7	Y
ZSO6	AOC-08A	9/27/2002	4 - 4.5	Not Excavated	2	N	24.7	Y
SB-AOC8B-2013-107	AOC-08B	2/25/2013	0 - 0.5	Not Excavated	2.3	N	24.7	Y
GS08-200	AOC-02	4/24/2012	11.5 - 12	Not Excavated	0.5	N	24.5	Y
JSO24	OFF-SITE	6/2/2003	0 - 0.5	Not Excavated	2	N	24.5	Y
B8-8-3	AOC-08B	1/18/2008	0 - 0.5	Not Excavated	2.4	N	24.4	Y
ZB-1-101	AOC-01A	12/16/2010	0.5 - 1	Not Excavated	2.2	N	24.3	Y
PL05-104	AOC-01C	12/6/2010	0.5 - 1	Not Excavated	2.5	N	24.2	Y
B3-17	AOC-03	7/24/1998	0.8 - 1.3	Not Excavated	11	N	24	Y
SB-10-SO-211	AOC-10	2/7/2014	11.5 - 12	Not Excavated	2.4	N	24	Y
ISO13	AOC-08A	6/4/2003	0 - 0.5	Not Excavated	2	N	23.8	Y
JSO27	OFF-SITE	6/3/2003	0 - 0.5	Not Excavated	2	N	23.7	Y
PL12-100	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	2.3	N	23.6	Y
PL12-103	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	2.5	N	23.6	Y
PL12-104	AOC-01C	12/3/2010	8 - 8.5	Not Excavated	2.3	N	23.6	Y
PL05-101	AOC-01C	12/6/2010	6.5 - 7	Not Excavated	2.1	N	23.5	Y
PL12-115	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	2.4	N	23.5	Y
SB-AOC10-2013-122	AOC-10	2/21/2013	3.5 - 4	Not Excavated	2.4	N	23.4	Y
B6-201	AOC-03	4/23/2012	9.5 - 10	Not Excavated	0.49	N	23.3	Y
PL07-105	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	2.3	N	23.2	Y
PL12-102	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	2.3	N	23.2	Y
SB-AOC10-2013-106	AOC-10	2/22/2013	9.5 - 10	Not Excavated	2.4	N	23.2	Y
SB-10-SO-212	AOC-10	2/7/2014	11.5 - 12	Not Excavated	2.4	N	23.1	Y
SB-AOC10-2013-101	AOC-10	2/22/2013	7.5 - 8	Not Excavated	2.5	N	23.1	Y
ZB-1-101	AOC-01A	12/16/2010	3 - 3.5	Not Excavated	2.2	N	23	Y
PL06-102	AOC-01C	12/7/2010	3.5 - 4	Not Excavated	2.4	N	23	Y
PL12-103	AOC-01C	12/3/2010	8 - 8.5	Not Excavated	2.2	N	23	Y
B7-3	AOC-07A	7/9/1998	6 - 6.5	Not Excavated	11	N	23	Y
B8-6	AOC-08B	7/14/1998	19.5 - 20	Not Excavated	13	N	23	Y
B10-6	AOC-09	7/16/1998	6-May	Not Excavated	12	N	23	Y
ASO16	OFF-SITE	6/2/2003	0 - 0.5	Excavated	2	N	22.9	Y
PL12-100	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	2.4	N	22.8	Y
ZSO6-7	AOC-08A	9/27/2002	11.5 - 12	Not Excavated	2	N	22.8	Y
PL05-105	AOC-01C	12/6/2010	6.5 - 7	Not Excavated	2.2	N	22.7	Y
SB-AOC10-2013-119	AOC-10	2/21/2013	7.5 - 8	Not Excavated	2.5	N	22.7	Y
BF-S13	AOC-11	10/23/2000	0 - 0.5	Not Excavated	2	N	22.7	Y
PL06-101	AOC-01C	12/7/2010	3.5 - 4	Not Excavated	2.4	N	22.6	Y
PL07-03	AOC-01C	3/18/2004	8 - 8.5	Not Excavated	2	N	22.6	Y

TABLE I-1
COMPARISON OF TOTAL CHROMIUM TO HEXAVALENT CHROMIUM CONCENTRATIONS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

					Chromium VI (mg/kg)		Total Chromium (mg/kg)	
Location	AOC	Date	Sample Depth (ft bgs)	Remedial Action	Concentration	Detection	Concentration	Detection
PL07-101	AOC-01C	12/3/2010	3 - 3.5	Not Excavated	2.5	N	22.6	Y
B3-4-200	AOC-03	4/23/2012	0.5 - 1	Not Excavated	0.47	N	22.6	Y
PL05-105	AOC-01C	12/6/2010	3.5 - 4	Not Excavated	2.4	N	22.5	Y
RW-100	AOC-01D	5/31/2012	1.5 - 2	Not Excavated	2.3	N	22.4	Y
PL05-101	AOC-01C	12/6/2010	0.5 - 1	Not Excavated	2.4	N	22.2	Y
SB-AOC10-2013-125	AOC-10	2/21/2013	6.5 - 7	Not Excavated	2.2	N	22.1	Y
PL12-101	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	2.4	N	22	Y
B10-1	AOC-09	7/15/1998	4.5 - 5	Not Excavated	12	N	22	Y
SB-AOC10-2013-124	AOC-10	2/21/2013	6.5 - 7	Not Excavated	2.4	N	22	Y
PL12-114	AOC-01C	12/3/2010	8 - 8.5	Not Excavated	2.3	N	21.9	Y
PL05-107	AOC-01C	12/6/2010	3.5 - 4	Not Excavated	2.5	N	21.8	Y
PL07-101	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	2.3	N	21.7	Y
PL10-09	AOC-01D	3/5/2004	2.5 - 3	Not Excavated	2	N	21.6	Y
PL12-108	AOC-01C	12/2/2010	4.5 - 5	Not Excavated	2.5	N	21.5	Y
JSO26	OFF-SITE	6/3/2003	0 - 0.5	Not Excavated	2	N	21.5	Y
BF-S4	AOC-11	9/25/2000	0 - 0.5	Excavated	2	N	21.3	Y
ISO19	AOC-12	6/4/2003	0 - 0.5	Not Excavated	2	N	21.3	Y
ZSO6-9	AOC-08A	9/27/2002	15 - 15.5	Not Excavated	2	N	21.2	Y
PL12-105	AOC-01C	12/6/2010	4.5 - 5	Not Excavated	2.5	N	21.1	Y
SB-AOC8B-2013-103	AOC-08B	2/25/2013	1 - 1.5	Not Excavated	2.2	N	21	Y
SB-AOC8B-2013-104	AOC-08B	2/25/2013	0 - 0.5	Not Excavated	2.3	N	20.9	Y
PL05-100	AOC-01C	12/6/2010	3.5 - 4	Not Excavated	2.4	N	20.8	Y
SB-AOC8B-2013-108	AOC-08B	2/25/2013	0 - 0.5	Not Excavated	2.4	N	20.8	Y
TP9-2-202	AOC-09	4/26/2012	9 - 9.5	Not Excavated	0.49	N	20.8	Y
ASO8	AOC-12	9/11/2002	3.5 - 4	Not Excavated	2	N	20.8	Y
PL10-17	AOC-01D	3/17/2004	3.5 - 4	Not Excavated	2	N	20.7	Y
ZB-1-100	AOC-01A	12/16/2010	0.5 - 1	Not Excavated	2.2	N	20.6	Y
PL07-107	AOC-01C	12/3/2010	3 - 3.5	Not Excavated	2.4	N	20.6	Y
JSO23	AOC-08B	10/3/2002	3.5 - 4	Not Excavated	2	N	20.6	Y
PL12-107B	AOC-01C	12/2/2010	4.5 - 5	Not Excavated	2.5	N	20.5	Y
ISO18	AOC-12	6/4/2003	0 - 0.5	Not Excavated	2	N	20.5	Y
PL05-103	AOC-01C	12/6/2010	0.5 - 1	Not Excavated	2.5	N	20.4	Y
PL07-101	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	2.3	N	20.4	Y
SB-AOC10-2013-113	AOC-10	2/22/2013	9.5 - 10	Not Excavated	2.5	N	20.4	Y
ASO2	AOC-12	9/9/2002	0 - 0.5	Excavated	2	N	20.4	Y
PL05-103	AOC-01C	12/6/2010	6.5 - 7	Not Excavated	2.3	N	20.3	Y
SB-AOC10-2013-121	AOC-10	2/21/2013	6.5 - 7	Not Excavated	2.4	N	20.2	Y
PL10-03	AOC-01D	3/5/2004	6 - 6.5	Not Excavated	2	N	20.1	Y
SB-AOC8B-2013-108	AOC-08B	2/25/2013	1 - 1.5	Not Excavated	2.3	N	20.1	Y
B10-8	AOC-10	7/17/1998	0 - 0.5	Not Excavated	12	N	20	Y
ZSO6	AOC-08A	9/27/2002	6 - 6.5	Not Excavated	2	N	19.9	Y
ASO1	AOC-12	9/9/2002	0 - 0.5	Not Excavated	2	N	19.8	Y
PL12-107B	AOC-01C	12/2/2010	3.5 - 4	Not Excavated	2.3	N	19.7	Y
ASO4	AOC-12	9/11/2002	3.5 - 4	Not Excavated	2	N	19.7	Y
PL05-101	AOC-01C	12/6/2010	0.5 - 4	Not Excavated	2.4	N	19.6	Y
PL12-105	AOC-01C	12/6/2010	0.5 - 1	Not Excavated	2.4	N	19.6	Y
WSO11	OFF-SITE	6/2/2003	0 - 0.5	Not Excavated	2	N	19.6	Y
PL06-101	AOC-01C	12/7/2010	0.5 - 1	Not Excavated	2.3	N	19.5	Y
PL12-115	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	2.3	N	19.5	Y
RW-102	AOC-01D	5/30/2012	0.5 - 1	Not Excavated	2.3	N	19.4	Y
SB-AOC8B-2013-103	AOC-08B	2/25/2013	0 - 0.5	Not Excavated	2.1	N	19.4	Y
SB-11-SO-200	AOC-11	4/25/2012	3.5 - 4	Not Excavated	0.44	N	19.4	Y
PL06-103	AOC-01C	12/7/2010	0.5 - 1	Not Excavated	2.4	N	19.2	Y
ASO15	OFF-SITE	6/2/2003	0 - 0.5	Not Excavated	2	N	19.2	Y
PL05-107	AOC-01C	12/6/2010	0.5 - 1	Not Excavated	2.3	N	19	Y
SB-AOC10-2013-127	AOC-10	2/21/2013	6.5 - 7	Not Excavated	2.2	N	19	Y
JSO25	OFF-SITE	6/3/2003	0 - 0.5	Not Excavated	2	N	19	Y
SB-AOC8B-2013-109	AOC-08B	2/25/2013	0 - 0.5	Not Excavated	2.3	N	18.9	Y
ASO1	AOC-12	9/9/2002	0.5 - 1	Not Excavated	2	N	18.9	Y
PL12-103	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	2.4	N	18.8	Y
PL10-04	AOC-01D	3/11/2004	2.5 - 3	Not Excavated	2	N	18.7	Y
PL07-106	AOC-01C	12/7/2010	3 - 3.5	Not Excavated	2.2	N	18.6	Y

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COMPARISON OF TOTAL CHROMIUM TO HEXAVALENT CHROMIUM CONCENTRATIONS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

					Chromium VI (mg/kg)		Total Chromium (mg/kg)	
Location	AOC	Date	Sample Depth (ft bgs)	Remedial Action	Concentration	Detection	Concentration	Detection
SB-AOC8B-2013-106	AOC-08B	2/25/2013	1 - 1.5	Not Excavated	2.3	N	18.6	Y
ASO7	AOC-12	9/9/2002	0 - 0.5	Excavated	2	N	18.5	Y
PL12-101	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	2.4	N	18.4	Y
PL10-105	AOC-01D	12/16/2010	3 - 3.5	Not Excavated	2.2	N	18.4	Y
TP7-4	AOC-07B	1/10/2008	9.5 - 10	Not Excavated	2.47	N	18.3	Y
B8-8-4	AOC-08B	1/23/2008	9 - 9.5	Not Excavated	2.48	N	18.3	Y
ZSO5	AOC-08A	9/27/2002	16 - 16.5	Not Excavated	2	N	18.2	Y
SB-AOC10-2013-105	AOC-10	2/22/2013	9.5 - 10	Not Excavated	2.4	N	18.2	Y
SB-AOC10-2013-114	AOC-10	2/22/2013	4.5 - 5	Not Excavated	2.4	N	18.2	Y
SB-AOC8B-2013-109	AOC-08B	2/25/2013	9.5 - 10	Not Excavated	2.5	N	18.1	Y
ISO17	AOC-12	6/4/2003	0 - 0.5	Not Excavated	2	N	18.1	Y
PL05-106	AOC-01C	12/7/2010	3.5 - 4	Not Excavated	2.4	N	18	Y
B3-14	AOC-03	7/22/1998	3.5 - 4	Not Excavated	12	N	18	Y
B3-15	AOC-03	7/22/1998	2 - 2.5	Not Excavated	11	N	18	Y
B7-1	AOC-07B	7/7/1998	13 - 13.5	Not Excavated	11	N	18	Y
PL05-100	AOC-01C	12/6/2010	0.5 - 1	Not Excavated	2.3	N	17.9	Y
PL07-103	AOC-01C	12/7/2010	3 - 3.5	Not Excavated	2.4	N	17.9	Y
PL12-102	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	2.1	N	17.9	Y
PL12-114	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	2.6	N	17.9	Y
PL10-12	AOC-01D	3/17/2004	3 - 3.5	Not Excavated	2	N	17.9	Y
ZB-3	AOC-01A	3/11/2004	2.5 - 3	Not Excavated	2	N	17.8	Y
ISO6	AOC-07A	9/12/2002	15.5 - 16	Not Excavated	2	N	17.7	Y
SB-AOC10-2013-128	AOC-10	2/21/2013	6.5 - 7	Not Excavated	2.2	N	17.7	Y
WSO8	AOC-09	10/11/2002	1 - 1.5	Not Excavated	2	N	17.6	Y
PL06-102	AOC-01C	12/7/2010	0.5 - 1	Not Excavated	2.4	N	17.5	Y
PL10-108	AOC-01D	12/16/2010	3 - 3.5	Not Excavated	2.2	N	17.2	Y
PL12-109	AOC-01C	12/2/2010	4.5 - 5	Not Excavated	2.4	N	17.1	Y
JSO25	OFF-SITE	6/3/2003	5.5 - 6	Not Excavated	2	N	17.1	Y
B8-1	AOC-09	7/13/1998	11.5 - 12	Not Excavated	12	N	17	Y
PL05-106	AOC-01C	12/7/2010	0.5 - 1	Not Excavated	2.4	N	16.9	Y
PL12-03	AOC-01C	3/4/2004	7 - 7.5	Not Excavated	2	N	16.9	Y
SB-AOC10-2013-105	AOC-10	2/22/2013	0 - 0.5	Not Excavated	2.3	N	16.9	Y
SB-AOC10-2013-129	AOC-10	2/21/2013	6.5 - 7	Not Excavated	2.4	N	16.7	Y
BF-S22	AOC-11	10/23/2000	0 - 0.5	Not Excavated	2	N	16.5	Y
ASO2	AOC-12	9/9/2002	1 - 1.5	Excavated	2	N	16.5	Y
ASO7	AOC-12	9/9/2002	3.5 - 4	Not Excavated	2	N	16.5	Y
MW-81	AOC-01C	5/22/2012	12 - 12.5	Not Excavated	0.45	N	16.4	Y
SB-AOC10-2013-102	AOC-10	2/22/2013	5 - 5.5	Not Excavated	2.1	N	16.4	Y
SB-AOC8B-2013-106	AOC-08B	2/25/2013	7.5 - 8	Not Excavated	2.3	N	16.3	Y
JSO26	OFF-SITE	6/3/2003	2 - 2.5	Not Excavated	2	N	16.3	Y
B8-9	AOC-08A	7/15/1998	5.5 - 6	Not Excavated	13	N	16	Y
B8-7	AOC-08B	7/15/1998	15.5 - 16	Not Excavated	12	N	16	Y
B8-3	AOC-10	7/14/1998	11.5 - 12	Not Excavated	12	N	16	Y
ASO4	AOC-12	9/11/2002	0 - 0.5	Not Excavated	2	N	16	Y
ZSO6	AOC-08A	9/27/2002	2 - 2.5	Not Excavated	2	N	15.9	Y
SB-AOC10-2013-110	AOC-10	2/22/2013	9.5 - 10	Not Excavated	2.4	N	15.9	Y
SB-AOC10-2013-123	AOC-10	2/21/2013	6.5 - 7	Not Excavated	2.5	N	15.9	Y
WSO11	OFF-SITE	6/2/2003	5 - 5.5	Not Excavated	2	N	15.9	Y
PL10-18	AOC-01D	3/17/2004	2.5 - 3	Not Excavated	2	N	15.7	Y
PL12-02	AOC-01C	3/4/2004	6.5 - 7	Not Excavated	2	N	15.6	Y
BF-S21	AOC-11	10/23/2000	0 - 0.5	Not Excavated	2	N	15.6	Y
ASO9	AOC-12	9/11/2002	0 - 0.5	Excavated	2	N	15.5	Y
PL07-100	AOC-01C	12/3/2010	3 - 3.5	Not Excavated	2.3	N	15.4	Y
SB-AOC10-2013-126	AOC-10	2/21/2013	6.5 - 7	Not Excavated	2.2	N	15.4	Y
WSO9	AOC-10	10/11/2002	0.5 - 1	Not Excavated	2	N	15.4	Y
MW-81	AOC-01C	5/22/2012	0.5 - 1	Not Excavated	0.44	N	15.2	Y
PL10-106	AOC-01D	12/16/2010	3 - 3.5	Not Excavated	2.3	N	15.2	Y
PL07-107	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	2.4	N	15.1	Y
PL12-113	AOC-01C	12/3/2010	0.5 - 1	Not Excavated	2.5	N	15.1	Y
PL10-08	AOC-01D	3/5/2004	2.5 - 3	Not Excavated	2	N	15.1	Y
B7-6	AOC-08A	7/10/1998	8 - 8.5	Not Excavated	12	N	15	Y
B8-1	AOC-09	7/13/1998	0 - 0.5	Not Excavated	10	N	15	Y

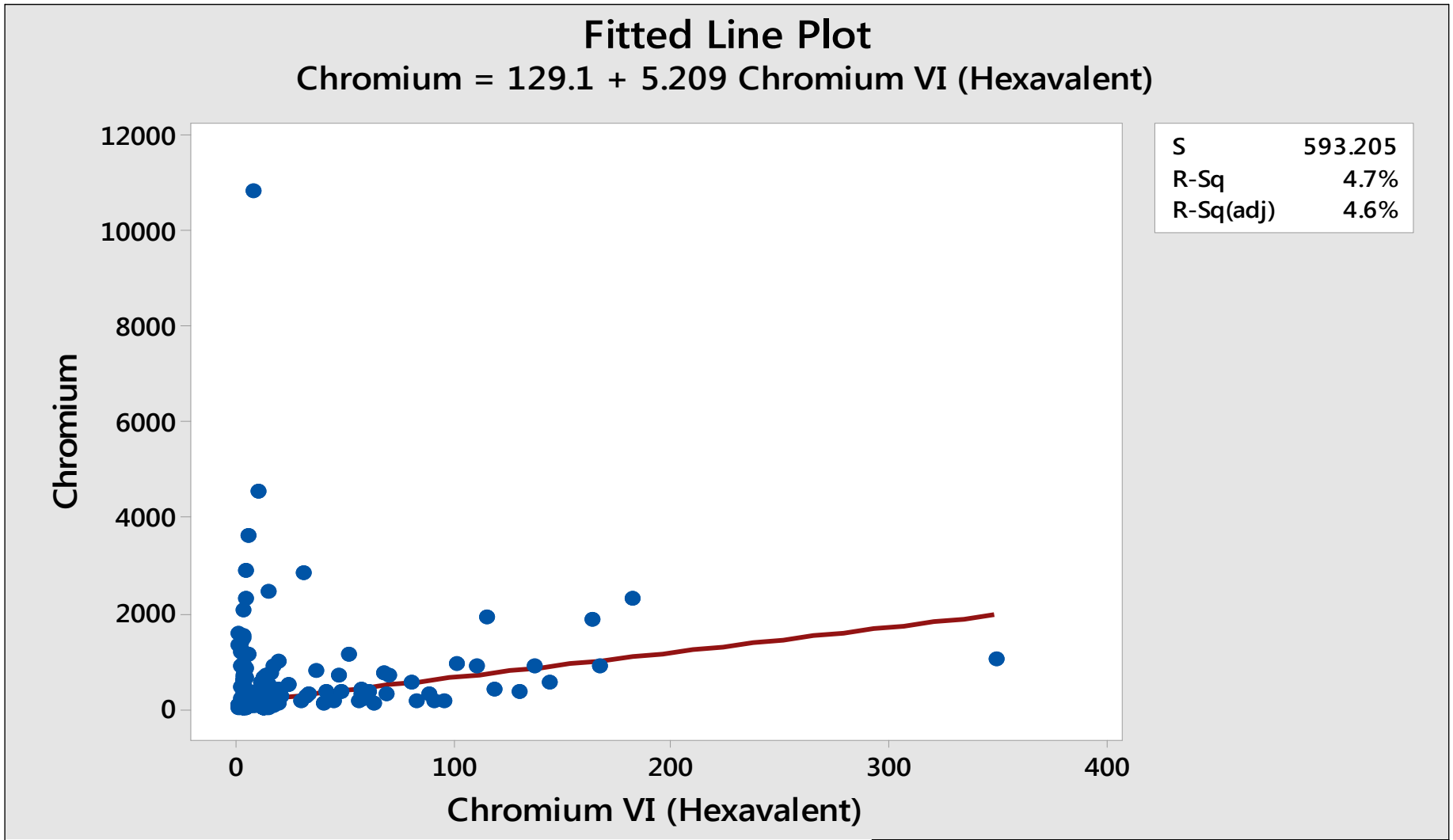
TABLE I-1
COMPARISON OF TOTAL CHROMIUM TO HEXAVALENT CHROMIUM CONCENTRATIONS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

					Chromium VI (mg/kg)		Total Chromium (mg/kg)	
Location	AOC	Date	Sample Depth (ft bgs)	Remedial Action	Concentration	Detection	Concentration	Detection
JSO28	AOC-08A	6/3/2003	3 - 3.5	Not Excavated	2	N	14.9	Y
PL10-03	AOC-01D	3/5/2004	5 - 5.5	Not Excavated	2	N	14.8	Y
PL10-103	AOC-01D	12/16/2010	0.5 - 1	Not Excavated	2.3	N	14.8	Y
ASO5	AOC-12	9/11/2002	0 - 0.5	Not Excavated	2	N	14.8	Y
PL10-103	AOC-01D	12/16/2010	3 - 3.5	Not Excavated	2.3	N	14.6	Y
WSO3	AOC-11	10/2/2002	2.5 - 3	Not Excavated	2	N	14.6	Y
ASO5	AOC-12	9/11/2002	3.5 - 4	Not Excavated	2	N	14.6	Y
PL10-08	AOC-01D	3/5/2004	0.5 - 1	Not Excavated	2	N	14.5	Y
SB-AOC8B-2013-101	AOC-08B	2/25/2013	0 - 0.5	Not Excavated	2.2	N	14.5	Y
SB-AOC10-2013-109	AOC-10	2/22/2013	0 - 0.5	Not Excavated	2.3	N	14.5	Y
PL07-01	AOC-01C	3/18/2004	4.5 - 5	Not Excavated	2	N	14.4	Y
SB-AOC8B-2013-101	AOC-08B	2/25/2013	19.5 - 20	Not Excavated	2.3	N	14.2	Y
SB-AOC10-2013-112	AOC-10	2/22/2013	4.5 - 5	Not Excavated	2.3	N	14.1	Y
PL10-06	AOC-01A	3/17/2004	2.75 - 3.25	Not Excavated	2	N	14	Y
B8-9	AOC-08A	7/15/1998	10.5 - 11	Not Excavated	12	N	14	Y
B8-3	AOC-10	7/14/1998	15 - 15.5	Not Excavated	12	N	14	Y
ASO6	AOC-12	9/11/2002	3.5 - 4	Not Excavated	2	N	13.7	Y
TP7-1	AOC-07B	1/10/2008	12 - 12.5	Not Excavated	2.52	N	13.6	Y
PL10-16	AOC-01D	3/17/2004	2.5 - 3	Not Excavated	2	N	13.4	Y
JSO22	AOC-08B	10/3/2002	3.5 - 4	Not Excavated	2	N	13.4	Y
ASO9	AOC-12	9/11/2002	3.5 - 4	Not Excavated	2	N	13.3	Y
PL05-105	AOC-01C	12/6/2010	0.5 - 1	Not Excavated	2.4	N	13	Y
B3-16	AOC-03	7/22/1998	4 - 4.5	Not Excavated	12	N	13	Y
B7-2	AOC-07B	7/9/1998	18 - 18.5	Not Excavated	12	N	13	Y
ASO15	OFF-SITE	6/2/2003	3.25 - 3.75	Not Excavated	2	N	13	Y
PL12-102	AOC-01C	12/3/2010	7.5 - 8	Not Excavated	2.2	N	12.9	Y
SB-AOC8B-2013-108	AOC-08B	2/25/2013	7.5 - 8	Not Excavated	2.2	N	12.9	Y
SB-10-SO-208	AOC-10	2/6/2014	19.5 - 20	Not Excavated	2.5	N	12.8	Y
PL10-104	AOC-01D	12/16/2010	0.5 - 1	Not Excavated	2.2	N	12.6	Y
PL07-104	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	2.3	N	12.4	Y
PL12-106	AOC-01C	12/6/2010	4.5 - 5	Not Excavated	2.5	N	12.4	Y
WSO10	OFF-SITE	6/2/2003	4 - 4.5	Not Excavated	2	N	12.4	Y
RW-101	AOC-01D	5/31/2012	1 - 1.5	Not Excavated	2.2	N	12.3	Y
PL12-101	AOC-01C	12/3/2010	7.5 - 8	Not Excavated	2.2	N	12	Y
B7-4	AOC-07B	7/9/1998	2.5 - 3	Not Excavated	12	N	12	Y
B7-4	AOC-07B	7/9/1998	6.5 - 7	Not Excavated	11	N	12	Y
B7-6	AOC-08A	7/10/1998	3 - 3.5	Not Excavated	12	N	12	Y
B8-8-3	AOC-08B	1/18/2008	11.5 - 12	Not Excavated	2.43	N	12	Y
ISO4	AOC-07A	9/12/2002	16 - 16.5	Not Excavated	2	N	11.9	Y
CSO4	OFF-SITE	6/2/2003	0 - 0.5	Not Excavated	2	N	11.9	Y
PL10-105	AOC-01D	12/16/2010	0.5 - 1	Not Excavated	2.2	N	11.7	Y
SB-AOC8B-2013-103	AOC-08B	2/25/2013	19.5 - 20	Not Excavated	2.3	N	11.6	Y
SB-AOC10-2013-114	AOC-10	2/22/2013	9.5 - 10	Not Excavated	2.4	N	11.6	Y
ASO6	AOC-12	9/11/2002	0 - 0.5	Not Excavated	2	N	11.5	Y
SB-AOC8B-2013-105	AOC-08B	2/25/2013	19.5 - 20	Not Excavated	2.5	N	11.2	Y
SB-10-SO-207	AOC-10	2/6/2014	19.5 - 20	Not Excavated	2.4	N	11.2	Y
PL12-106	AOC-01C	12/6/2010	0.5 - 1	Not Excavated	2.3	N	11.1	Y
B8-9	AOC-08A	7/15/1998	16.5 - 16.9	Not Excavated	10	N	11	Y
B10-4	AOC-09	7/16/1998	11.5 - 12	Not Excavated	12	N	11	Y
JSO24	OFF-SITE	6/2/2003	5.5 - 6	Not Excavated	2	N	11	Y
PL12-104	AOC-01C	12/3/2010	4.5 - 5	Not Excavated	2.2	N	10.9	Y
SB-AOC8B-2013-100	AOC-08B	2/25/2013	1 - 1.5	Not Excavated	2.4	N	10.9	Y
PL10-07	AOC-01D	3/5/2004	2.5 - 3	Not Excavated	2	N	10.8	Y
B9-16-200	AOC-09	4/25/2012	0 - 0.5	Not Excavated	0.44	N	10.7	Y
PL12-04	AOC-01C	3/17/2004	4 - 4.5	Not Excavated	2	N	10.3	Y
JSO27	OFF-SITE	6/3/2003	2 - 2.5	Not Excavated	2	N	10.3	Y
SB-10-SO-209	AOC-10	2/6/2014	14.5 - 15	Not Excavated	2.6	N	10.2	Y
ASO16	OFF-SITE	6/2/2003	8 - 8.5	Not Excavated	2	N	9.9	Y
B8-4	AOC-08B	7/14/1998	21.5 - 22	Not Excavated	12	N	9.8	Y
PL10-107	AOC-01D	12/16/2010	3 - 3.5	Not Excavated	2.2	N	9.5	Y
SB-10-SO-209	AOC-10	2/6/2014	19.5 - 20	Not Excavated	2.5	N	8.9	Y
B8-8-3	AOC-08B	1/18/2008	19.5 - 20	Not Excavated	2.57	N	8.7	Y

TABLE I-1
COMPARISON OF TOTAL CHROMIUM TO HEXAVALENT CHROMIUM CONCENTRATIONS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

					Chromium VI (mg/kg)		Total Chromium (mg/kg)	
Location	AOC	Date	Sample Depth (ft bgs)	Remedial Action	Concentration	Detection	Concentration	Detection
SB-10-SO-210	AOC-10	2/6/2014	14.5 - 15	Not Excavated	2.3	N	8.7	Y
SB-10-SO-207	AOC-10	2/6/2014	14.5 - 15	Not Excavated	2.4	N	8.6	Y
B8-1	AOC-09	7/13/1998	17 - 17.5	Not Excavated	12	N	8.5	Y
B10-6	AOC-09	7/16/1998	11.5 - 12	Not Excavated	12	N	8.3	Y
B10-8	AOC-10	7/17/1998	1.5 - 2	Not Excavated	12	N	8.2	Y
B3-17	AOC-03	7/24/1998	4.3 - 4.8	Not Excavated	11	N	8	Y
SB-AOC8B-2013-103	AOC-08B	2/25/2013	9.5 - 10	Not Excavated	2.3	N	7.8	Y
CSO4	OFF-SITE	6/2/2003	6.5 - 7	Not Excavated	2	N	7.8	Y
SB-10-SO-210	AOC-10	2/6/2014	19.5 - 20	Not Excavated	2.4	N	7.6	Y
B7-1	AOC-07B	7/7/1998	18 - 18.5	Not Excavated	11	N	7.3	Y
B8-2	AOC-10	7/13/1998	15.5 - 15.8	Not Excavated	13	N	7.1	Y
B8-8-1	AOC-08B	1/17/2008	19.5 - 20	Not Excavated	2.38	N	6.7	Y
B7-6	AOC-08A	7/10/1998	18 - 18.5	Not Excavated	14	N	6.4	Y
B8-8	AOC-08B	7/15/1998	18 - 18.5	Not Excavated	12	N	5.9	Y
RW-102	AOC-01D	5/30/2012	7 - 7.5	Not Excavated	2.4	N	5.5	Y
MW-22	AOC-12	7/8/1998	17.5 - 18	Not Excavated	11	N	5.1	Y
B10-3	AOC-10	7/16/1998	9 - 9.5	Not Excavated	11	N	4.4	Y
B10-1	AOC-09	7/15/1998	13.5 - 14	Not Excavated	12	N	3.9	Y
PL11-02	AOC-01A	3/18/2004	3 - 3.5	Not Excavated	2	N	3.2	Y
B10-2	AOC-09	7/16/1998	11.5 - 12	Not Excavated	12	N	3.2	Y
PL11-01	AOC-01A	3/18/2004	3 - 3.5	Not Excavated	2	N	2.9	Y
B8-4	AOC-08B	7/14/1998	0 - 0.5	Not Excavated	11	N	0.72	Y
B8-5	AOC-08A	7/14/1998	15.5 - 16	Not Excavated	11	N	2.8	N
B7-3	AOC-07A	7/9/1998	14 - 14.5	Not Excavated	12	N	2.5	N
B7-2	AOC-07B	7/9/1998	12 - 12.5	Not Excavated	12	N	2.5	N
B10-7	AOC-10	7/16/1998	6.5 - 7	Not Excavated	12	N	2.5	N

Notes:
1. ~~Striketrough~~ indicates values removed as outliers



HALEY ALDRICH

REMEDIAL ACTION REPORT ADDENDUM
RACER TRUST - EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

TOTAL CHROMIUM VERSUS
HEXAVALENT CHROMIUM
LINEAR REGRESSION PLOT

APRIL 2017

FIGURE I-1

APPENDIX G

NJGS Publication



Arsenic in New Jersey Ground Water

Arsenic (As) is a toxic element that is known to pose a risk of adverse health effects in people who consume water containing it. These impacts include, but are not limited to, cancer of the skin, bladder, lung, kidney, nasal passages, liver and prostate (USEPA, 2001). Because of these health concerns, the United States Environmental Protection Agency (USEPA) has lowered the drinking water standard for arsenic in public water supplies from 50 mircrograms per liter (ug/l) to 10 ug/l effective January 23, 2006. The New Jersey Department of Environmental Protection (NJDEP) has adopteded a lower standard of 5 ug/l to protect the public health. The statewide standard will apply to both public and non-public water systems and also become effective January 23, 2006.

Introduction

Ground-water-quality data from the New Jersey Ambient Ground-Water Quality Network, Public Water Supplies and other studies in New Jersey reveal that arsenic concentrations in ground water are highest in the Piedmont Physiographic Province (fig. 1). In New Jersey, the Piedmont mostly includes a 195- to 225-million-year-old sediment-filled tectonic depression called the Newark Basin. This basin consists mainly of 3 water-bearing sedimentary bedrock formations that are gently folded and generally dip 5 to 15 degrees to the northwest. These rocks are locally faulted and

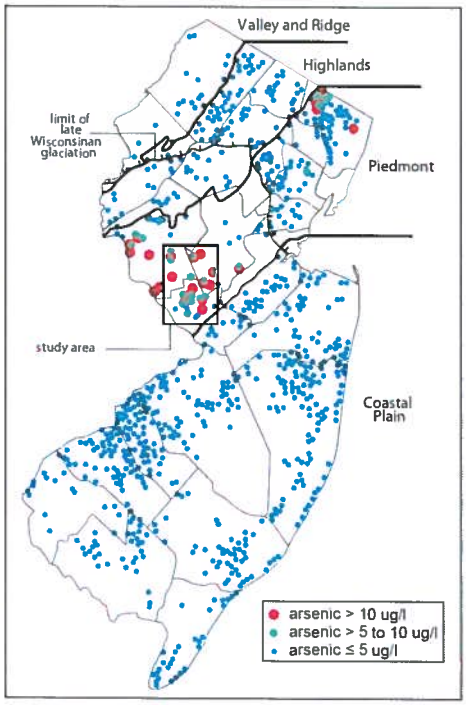


Figure 1. *Location of study area and distribution of public community supply wells (shown by colored circles) in New Jersey.*

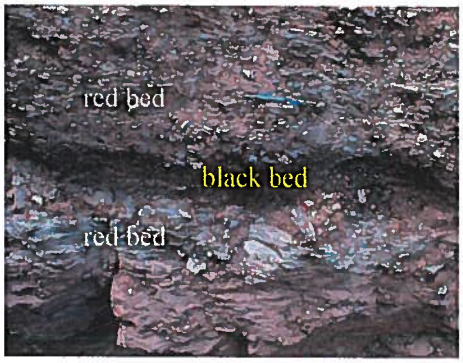


Figure 2. *Outcrop showing metal-rich black shale between red beds in the Passaic Formation near Flemington, NJ. Blue pencil shown for scale.*

interlayered with younger basaltic igneous rocks. From oldest to youngest the three major sedimentary formations are: (1) the Stockton, mainly comprised of arkosic sandstone, (2) the Lockatong, mostly black (organic rich) with some red, argillitic mudstone, siltstone and shale containing lenses of pyrite, and (3) the Passaic, mainly red hematitic mudstone, siltstone and sandstone interlayered with beds of black shale containing pyrite (fig. 2). Note: the term shale is used here for fine-grained sedimentary rock of the Passaic and Lockatong Formations. Detailed stratigraphic relationships, including the identification of specific members of the three principle formations in the Newark Basin, have been determined as part of the Newark Basin Coring Project (Olsen and others, 1996).

Domestic wells were randomly sampled in 2000 and 2001 in a 200-square-mile study area in the central part of the Newark Basin in western New Jersey. As shown on figures 1 and 3, arsenic concentrations in groundwater ranged from < 1 to 57 ug/l. For the purposes of water quality analysis, micrograms per leter (ug/l) is the same as parts per billion (ppb). Of the 94 wells sampled, 15 percent had arsenic concentrations exceeding 10 ug/l and 30 percent were greater than 5 ug/l (fig. 3 and 4). Water from the Passaic and Lockatong Formations had the highest arsenic concentrations and frequency of occurrence. Ground water with arsenic concentrations exceeding 10 ug/l generally had low dissolved oxygen (DO) concentrations (DO < 3 mg/L) and pH values range from 7.5 to 8.0 (fig. 5). Arsenic

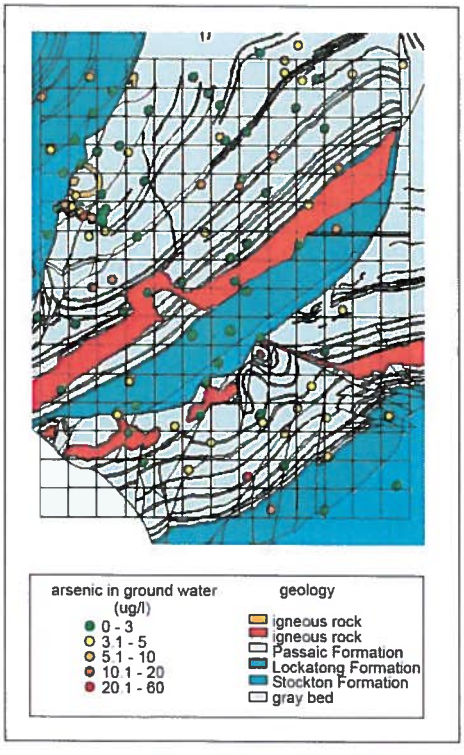


Figure 3. *Geologic map of study area showing arsenic concentration ranges in water from domestic wells sampled on a 1-square-mile grid.*

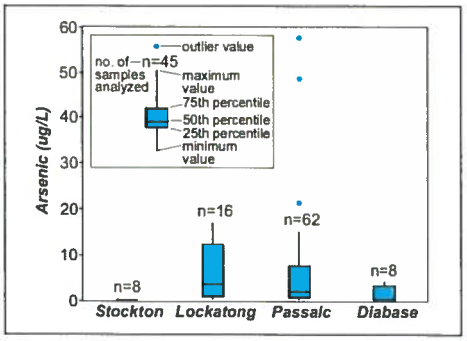


Figure 4. *Box and pin diagram showing arsenic concentration of geologic formations in study area.*

concentrations in water greater than 40 ug/l are associated with suboxic (DO < 1.0 mg/L) or nearly suboxic ground water. Subsequent analyses have identified 3 localized areas of ground water with as much as 90, 120 and 215 ug/l arsenic in each.

Potential Arsenic Source(s)

Potential sources for the regional occurrence of arsenic in ground water in the Newark Basin are arsenical pesticides and natural minerals in bedrock. Arsenical pesticides were widely used in this country, including New Jersey, from the late 1800's until the middle to late 1900's (Murphy and Aucott, 1998). The greatest use in New Jersey was in fruit orchards (NJDEP, 1999). Arsenical pesticides are not very water soluble and bind tightly to soil particles. Studies in North Dakota, South Dakota, Wisconsin and Minnesota all conclude that ground water is largely unaffected by past arsenical pesticide use (Welch and others, 2000). Therefore, arsenic from arsenical pesticides is generally not very mobile in soils and not a major source in ground water.

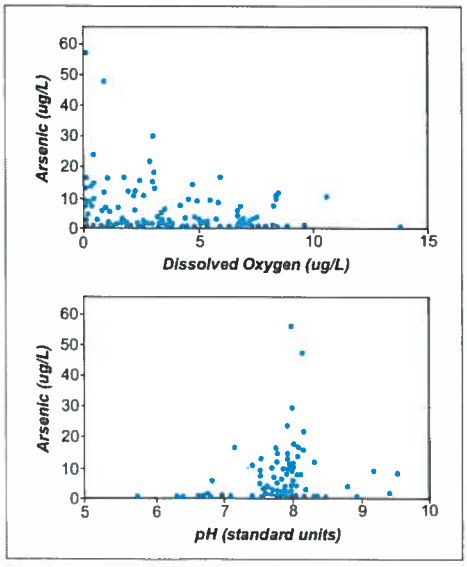


Figure 5. *Arsenic concentration versus dissolved oxygen and pH in ground water from study area. Based on data from all the formations sampled.*

Whole rock geochemical analyses conducted by the New Jersey Geological Survey (NJGS) showed that arsenic concentrations decreased from black to gray to red shale. Maximum concentrations found were 130, 50 and 13 parts per million (ppm) in the black, gray and red shale, respectively. Electron microprobe analysis of the black shale identified the mineral pyrite (FeS_2) as the major source of arsenic. Pyrite in two different black shale members of the Passaic Formation was shown to have maximum arsenic concentrations of 40,000 and 3000 ppm (fig. 6). A spatial relationship between arsenic concentrations greater than 40 ug/l in well water and the local occurrence of black shale has been observed in the Lockatong and Passaic Formations.

Therefore, the regional occurrence of arsenic in ground water is natural. Pyrite is the most significant mineral source of arsenic; however, hematite (Fe_2O_3) and clay minerals in red shale may also be sources. Three mechanisms for arsenic mobilization are likely (1) oxidation of pyrite, (2) release of arsenic from hematite and clays by desorption, and (3) dissolution of hematite. Pyrite oxidation is expected to be most significant in the shallow subsurface system in the unsaturated zone and at the water table where DO is generally readily available. Here, mobilized arsenic would follow the local ground water flow path, potentially recharging the deeper ground-water system via water-bearing zones. Arsenic may be mobilized from hematite and clay minerals under chemically alkaline and reducing conditions and during competitive adsorption with other ions. An alkaline pH and low DO (more reducing) aqueous environment is associated with high arsenic concentrations in water in the Newark Basin (fig. 5). NJGS continues to investigate this problem to determine vulnerable areas.

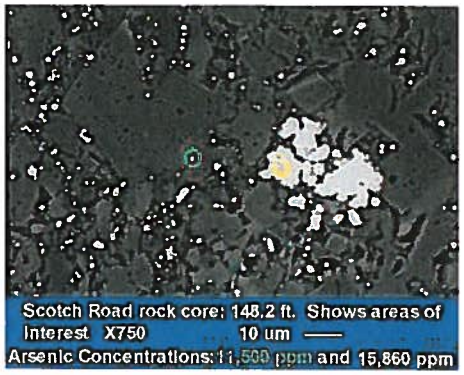


Figure 6. *Electron micrograph at 750 times magnification showing pyrite (light) and calcite (dark). Green and yellow circles show pyrite grains with 11,500 ppm 15,860 ppm arsenic respectively. Rock has 130 ppm As. (Core sample courtesy Zoltan Szabo, USGS).*

Sources of Information

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STATE OF NEW JERSEY
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Department of Environmental Protection
Bradley M. Campbell, *Commissioner*
Land Use Management
Ernest P. Hahn, *Assistant Commissioner*
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Karl Muessig, *State Geologist*

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This information circular is available upon written request or by downloading a copy from the NJGS web site.

APPENDIX H

Response to Comments Supporting Documentation

RTC Tables

TABLE 2
HISTORICALLY APPLIED PESTICIDES EVALUATION
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)	Historic Pesticides
GSO26BD	Surface	Arsenic	22.7	19	Yes	1.5	7.54	Yes
PKWY-01	Surface	Arsenic	46.4	19	Yes	0.5	7.00	Yes
PKWY-02-A	Surface	Arsenic	55.3	19	Yes	0.5	7.68	Yes
PKWY-08-A	Surface	Arsenic	58.3	19	Yes	0.5	7.74	Yes
XSO2-A	Surface	Arsenic	43.8	19	Yes	0.5	8.42	Yes

TABLE 3
SINGLE POINT COMPARISON TO IGWSSSRS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)
109-1	Surface	Chromium	3840.00	1540.00	Yes	7.75	14.03
268-1	Surface	Lead	690.00	328.00	Yes	1.50	15.71
268-1	Surface	Nickel	9940.00	9200.00	Yes	1.50	15.71
268-2	Surface	Lead	1860.00	328.00	Yes	3.75	15.40
268-2	Surface	Zinc	37800.00	14200.00	Yes	3.75	15.40
ASO12	Surface	Lead	804.00	328.00	Yes	1.00	9.59
ASO12-100	Surface	Lead	1570.00	328.00	Yes	1.00	9.59
ASO12-101	Surface	Lead	542.00	328.00	Yes	1.00	9.69
ASO13	Surface	Lead	576.00	328.00	Yes	1.00	9.49
ASO14	Surface	Lead	503.00	328.00	Yes	1.00	9.03
ASO17	Surface	Lead	679.00	328.00	Yes	0.75	8.00
ASO20	Surface	Lead	888.00	328.00	Yes	0.75	9.82
ASO20-100	Surface	Lead	490.00	328.00	Yes	0.75	9.91
ASO20-101	Surface	Lead	1230.00	328.00	Yes	0.70	9.86
ASO21	Surface	Lead	457.00	328.00	Yes	0.75	7.90
ASO23	Surface	Lead	1200.00	328.00	Yes	1.00	9.39
ASO23-100	Surface	Lead	541.00	328.00	Yes	1.00	9.43
ASO23-102	Surface	Lead	1110.00	328.00	Yes	1.00	9.26
B10-3	Surface	Arsenic	25.00	19.00	Yes	4.00	10.22
B2-1	Surface	Benzene	1.50	1.00	Yes	10.00	14.86
B2-1	Surface	Trichloroethene	2.50	1.00	Yes	10.00	14.86
B2-1-200	Surface	Benzene	2.10	1.00	Yes	12.00	14.83
B2-1-200	Surface	Trichloroethene	2.10	1.00	Yes	12.00	14.83
B2-2	Surface	Benzene	15.00	1.00	Yes	9.50	14.95
B2-2	Surface	Trichloroethene	15.00	1.00	Yes	9.50	14.95
B2-2-200	Surface	Benzene	1.10	1.00	Yes	12.00	14.95
B2-2-200	Surface	Trichloroethene	1.10	1.00	Yes	12.00	14.95
B3-16-A	Surface	Arsenic	37.40	19.00	Yes	1.00	13.16
B3-5	Subsurface	Benzene	1.50	1.00	Yes	10.00	11.87
B-4E	Surface	Lead	340.00	328.00	Yes	0.50	16.03
B6-201	Surface	Arsenic	76.20	19.00	Yes	1.00	14.34
B6-3	Surface	Lead	420.00	328.00	Yes	1.00	9.62
B6-3-A	Surface	Arsenic	28.20	19.00	Yes	1.00	9.62
B7-1	Surface	Arsenic	22.00	19.00	Yes	0.50	14.70
B7-2	Surface	Arsenic	180.00	19.00	Yes	3.50	14.68

TABLE 3
SINGLE POINT COMPARISON TO IGWSSSRS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)
B7-2-EX1B	Surface	Arsenic	28.00	19.00	Yes	0.50	14.68
B7-2-EX1C	Surface	Arsenic	20.00	19.00	Yes	2.00	14.68
B7-3	Surface	Lead	430.00	328.00	Yes	4.00	13.34
B7-3	Surface	Vinyl Chloride	12.00	10.00	Yes	10.50	13.34
B7-5-A	Surface	Arsenic	29.60	19.00	Yes	3.00	15.57
B8-2	Surface	Lead	670.00	328.00	Yes	4.00	9.45
B8-4	Subsurface	Benzene	1.80	1.00	Yes	8.00	9.75
B8-4	Subsurface	Chromium	2400.00	1540.00	Yes	8.00	9.75
B8-4	Subsurface	Lead	800.00	328.00	Yes	8.00	9.75
B8-4	Subsurface	Zinc	22000.00	14200.00	Yes	8.00	9.75
B8-4-100	Subsurface	Lead	1810.00	328.00	Yes	8.50	9.11
B8-4-101	Subsurface	Lead	331.00	328.00	Yes	8.50	9.52
B8-4-102	Subsurface	Lead	1010.00	328.00	Yes	8.50	8.72
B8-5	Surface	Arsenic	30.00	19.00	Yes	0.50	9.47
B8-6	Subsurface	Lead	1200.00	328.00	Yes	8.00	9.69
B8-6-100	Subsurface	Lead	396.00	328.00	Yes	10.00	9.69
B8-6-101	Surface	Lead	336.00	328.00	Yes	6.00	9.69
B8-6-103	Surface	Benzene	2.90	1.00	Yes	6.50	10.65
B8-6-103	Surface	Lead	7510.00	328.00	Yes	6.50	10.65
B8-8	Surface	Benzene	16.00	1.00	Yes	10.00	13.15
B8-8	Surface	Lead	860.00	328.00	Yes	10.00	13.15
B8-8-1	Surface	Benzene	1.60	1.00	Yes	12.50	14.55
B8-8-1	Surface	Lead	577.00	328.00	Yes	8.25	14.55
B8-8-1	Surface	Zinc	16800.00	14200.00	Yes	12.50	14.55
B8-8-2-100	Surface	Benzene	1.60	1.00	Yes	8.25	13.05
B8-8-2-100	Surface	Lead	3520.00	328.00	Yes	8.25	13.05
B8-8-2-101	Surface	Lead	2070.00	328.00	Yes	8.25	13.11
B8-8-2-102	Surface	Trichloroethene	13.00	1.00	Yes	10.00	13.02
B8-8-4-102	Surface	Lead	686.00	328.00	Yes	11.50	14.46
B9-12-100	Surface	Arsenic	31.40	19.00	Yes	3.00	8.13
B9-12-101	Surface	Arsenic	55.00	19.00	Yes	0.50	8.91
B9-12-102	Surface	Arsenic	23.90	19.00	Yes	0.50	8.14
B9-12-103	Surface	Arsenic	42.00	19.00	Yes	0.50	8.18
B9-13-A	Surface	Arsenic	25.90	19.00	Yes	0.50	8.67
B9-14	Surface	Arsenic	90.00	19.00	Yes	2.00	8.92

TABLE 3
SINGLE POINT COMPARISON TO IGWSSSRS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)
B9-15-A	Surface	Arsenic	50.10	19.00	Yes	0.50	8.18
B9-16-100	Surface	Arsenic	48.90	19.00	Yes	0.50	8.44
B9-16-101	Surface	Arsenic	47.50	19.00	Yes	0.50	8.52
B9-16-102	Surface	Arsenic	51.50	19.00	Yes	0.50	8.41
B9-2-100	Surface	Arsenic	365.00	19.00	Yes	0.50	6.76
B9-2-101	Surface	Arsenic	356.00	19.00	Yes	0.50	6.21
B9-2-102	Surface	Arsenic	26.30	19.00	Yes	0.50	7.19
B9-2-103	Surface	Arsenic	407.00	19.00	Yes	0.50	7.08
B9-3-A	Surface	Arsenic	33.80	19.00	Yes	0.50	4.47
B9-9-A	Surface	Arsenic	84.60	19.00	Yes	0.50	8.72
CE-1-101	Surface	Arsenic	22.50	19.00	Yes	8.00	12.62
CE-1-102	Surface	Arsenic	163.00	19.00	Yes	8.00	12.67
FSO27-A	Surface	Arsenic	31.00	19.00	Yes	1.00	10.42
FSO29	Surface	Arsenic	30.60	19.00	Yes	0.50	8.66
FSO3	Surface	Arsenic	20.10	19.00	Yes	0.50	13.05
FSO5-A	Surface	Arsenic	109.00	19.00	Yes	0.50	14.28
GRB2-1	Surface	Arsenic	31.00	19.00	Yes	0.50	14.60
GRB2-1	Surface	Lead	9200.00	328.00	Yes	0.50	14.60
GSO26BD	Surface	Arsenic	22.7	19	Yes	1.5	7.54
HSO12	Surface	Zinc	28100.00	14200.00	Yes	0.50	8.06
HSO13	Surface	Lead	398.00	328.00	Yes	0.50	7.73
HSO14-A	Surface	Arsenic	38.20	19.00	Yes	0.50	7.95
HSO15	Surface	Lead	555.00	328.00	Yes	0.50	7.65
HSO17-A	Subsurface	Arsenic	122.00	19.00	Yes	0.50	2.32
ISO11	Surface	Arsenic	20.20	19.00	Yes	1.00	14.61
ISO23	Surface	Trichloroethene	1.60	1.00	Yes	8.50	11.79
ISO5-100	Surface	Lead	460.00	328.00	Yes	1.50	14.67
ISO5-101	Surface	Arsenic	33.70	19.00	Yes	1.50	14.67
ISO5-102	Surface	Arsenic	28.50	19.00	Yes	1.50	14.73
ISO5-103	Surface	Lead	1610.00	328.00	Yes	3.00	14.62
ISO6	Surface	Lead	9390.00	328.00	Yes	1.50	14.91
ISO6-100	Surface	Arsenic	34.70	19.00	Yes	1.50	14.91
ISO6-100	Surface	Lead	1280.00	328.00	Yes	1.50	14.91
ISO6-101	Surface	Lead	1160.00	328.00	Yes	1.50	14.92
ISO6-102	Surface	Arsenic	62.80	19.00	Yes	1.50	14.97

TABLE 3
SINGLE POINT COMPARISON TO IGWSSSRS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)
ISO6-103	Surface	Arsenic	71.20	19.00	Yes	1.50	14.85
ISO6-103	Surface	Lead	775.00	328.00	Yes	1.50	14.85
ISO7	Surface	Lead	334.00	328.00	Yes	9.00	14.59
ISO7-101	Surface	Arsenic	19.30	19.00	Yes	1.50	14.54
ISO7-103	Surface	Arsenic	44.50	19.00	Yes	3.00	14.49
JSO11-101	Surface	Lead	1290.00	328.00	Yes	6.50	10.04
JSO11-101	Subsurface	Lead	526.00	328.00	Yes	10.00	10.04
JSO19	Surface	Trichloroethene	4.60	1.00	Yes	4.00	11.95
JSO29	Surface	Trichloroethene	1.50	1.00	Yes	4.00	11.77
MC3-1	Surface	Lead	382.00	328.00	Yes	8.50	13.08
MC7-1	Surface	Benzene	1.40	1.00	Yes	11.00	14.81
MC7-1	Surface	Trichloroethene	1.40	1.00	Yes	11.00	14.81
MOA-C-B11	Surface	Chromium	1700.00	1540.00	Yes	4.00	15.64
MOA-C-B11	Surface	Lead	1040.00	328.00	Yes	4.00	15.64
MOA-C-B13	Surface	Arsenic	24.80	19.00	Yes	8.00	15.98
MOA-C-B13	Surface	Chromium	1650.00	1540.00	Yes	8.00	15.98
MOA-C-B13	Surface	Lead	2390.00	328.00	Yes	8.00	15.98
MOA-C-B15	Surface	Chromium	1850.00	1540.00	Yes	6.00	16.25
MOA-C-B15	Surface	Lead	894.00	328.00	Yes	12.00	16.25
MOA-C-B7	Surface	Chromium	2200.00	1540.00	Yes	4.00	15.20
MOA-C-B7	Surface	Lead	1070.00	328.00	Yes	4.00	15.20
MOA-C-B8	Surface	Lead	906.00	328.00	Yes	2.00	14.52
MOA-C-B8-100	Surface	Arsenic	26.80	19.00	Yes	2.50	14.52
MOA-C-B8-100	Surface	Lead	398.00	328.00	Yes	2.50	14.52
MOA-C-B8-100	Surface	Zinc	28600.00	14200.00	Yes	1.00	14.52
MOA-C-B8-101	Surface	Lead	423.00	328.00	Yes	2.50	15.45
MOA-C-B8-103	Surface	Arsenic	19.80	19.00	Yes	2.50	15.41
MOA-C-B8-103	Surface	Chromium	1550.00	1540.00	Yes	2.50	15.41
MOA-C-B8-103	Surface	Lead	1130.00	328.00	Yes	2.50	15.41
MW-22	Surface	Arsenic	91.00	19.00	Yes	4.00	14.03
PKWY-01	Surface	Arsenic	46.4	19	Yes	0.5	7.00
PKWY-02-A	Surface	Arsenic	55.3	19	Yes	0.5	7.68
PKWY-08-A	Surface	Arsenic	58.3	19	Yes	0.5	7.74
PL05-02	Surface	Nickel	12500.00	9200.00	Yes	4.00	9.95
PL05-03	Surface	Lead	1070.00	328.00	Yes	7.00	10.69

TABLE 3
SINGLE POINT COMPARISON TO IGWSSSRS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)
PL07-01	Surface	Nickel	11100.00	9200.00	Yes	3.50	13.83
PL07-02	Surface	Chromium	5080.00	1540.00	Yes	3.50	13.09
PL07-105	Surface	Lead	398.00	328.00	Yes	1.00	14.75
PL07-107	Surface	Lead	517.00	328.00	Yes	5.00	14.39
PL07-107	Surface	Nickel	31100.00	9200.00	Yes	5.00	14.39
PL09-01	Surface	Chromium	3620.00	1540.00	Yes	4.50	9.42
PL10-101	Surface	Lead	4810.00	328.00	Yes	3.50	6.34
PL10-11	Surface	Lead	341.00	328.00	Yes	3.50	6.27
PL10-13	Surface	Lead	352.00	328.00	Yes	3.50	8.00
PL10-15	Surface	Arsenic	30.80	19.00	Yes	3.50	9.27
PL12-08	Surface	Lead	2410.00	328.00	Yes	5.00	9.54
SB-10-SO-1	Surface	Arsenic	20.00	19.00	Yes	2.00	6.22
SB-10-SO-10	Subsurface	Chromium	1800.00	1540.00	Yes	6.00	7.91
SB-10-SO-10	Subsurface	Lead	830.00	328.00	Yes	6.00	7.91
SB-10-SO-10	Subsurface	Zinc	15000.00	14200.00	Yes	6.00	7.91
SB-10-SO-10-100	Subsurface	Lead	793.00	328.00	Yes	6.50	7.91
SB-10-SO-10-101	Subsurface	Lead	712.00	328.00	Yes	7.00	7.87
SB-10-SO-10-101	Surface	Lead	462.00	328.00	Yes	5.00	7.87
SB-10-SO-10-102	Surface	Lead	410.00	328.00	Yes	6.00	8.00
SB-10-SO-10-103	Subsurface	Lead	468.00	328.00	Yes	7.00	7.89
SB-10-SO-10-103	Surface	Lead	362.00	328.00	Yes	0.50	7.89
SB-10-SO-2	Subsurface	Chromium	2600.00	1540.00	Yes	6.00	7.60
SB-10-SO-2	Subsurface	Lead	1200.00	328.00	Yes	6.00	7.60
SB-10-SO-209	Subsurface	Chromium	2260.00	1540.00	Yes	10.00	10.57
SB-10-SO-209	Subsurface	Lead	769.00	328.00	Yes	10.00	10.57
SB-10-SO-209	Subsurface	Zinc	20900.00	14200.00	Yes	10.00	10.57
SB-10-SO-5-100	Surface	Chromium	3320.00	1540.00	Yes	2.00	6.64
SB-10-SO-5-100	Surface	Lead	1210.00	328.00	Yes	2.00	6.64
SB-10-SO-5-100	Subsurface	Lead	333.00	328.00	Yes	5.00	6.64
SB-10-SO-5-100	Surface	Nickel	10600.00	9200.00	Yes	2.00	6.64
SB-10-SO-5-101	Surface	Chromium	2820.00	1540.00	Yes	1.50	6.60
SB-10-SO-5-101	Surface	Lead	1440.00	328.00	Yes	1.50	6.60
SB-10-SO-5-102	Surface	Chromium	8520.00	1540.00	Yes	1.50	6.66
SB-10-SO-5-102	Surface	Lead	2400.00	328.00	Yes	1.50	6.66
SB-10-SO-5-102	Surface	Nickel	20300.00	9200.00	Yes	1.50	6.66

TABLE 3
SINGLE POINT COMPARISON TO IGWSSSRS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)
SB-10-SO-5-102	Surface	Zinc	29100.00	14200.00	Yes	1.50	6.66
SB-10-SO-5-103	Surface	Lead	477.00	328.00	Yes	1.50	6.65
SB-10-SO-5A	Subsurface	Lead	3900.00	328.00	Yes	4.00	5.79
SB-10-SO-5A-100	Surface	Chromium	2740.00	1540.00	Yes	2.50	5.79
SB-10-SO-5A-100	Surface	Lead	916.00	328.00	Yes	2.50	5.79
SB-10-SO-5A-101	Surface	Lead	504.00	328.00	Yes	2.50	5.81
SB-10-SO-7	Surface	Lead	4700.00	328.00	Yes	5.00	8.89
SB-10-SO-7-102	Subsurface	Lead	477.00	328.00	Yes	7.00	8.89
SB-10-SO-7-103	Surface	Chromium	4500.00	1540.00	Yes	6.00	8.83
SB-10-SO-7-103	Surface	Lead	1960.00	328.00	Yes	6.00	8.83
SB-10-SO-7-103	Surface	Nickel	11300.00	9200.00	Yes	6.00	8.83
SB-10-SO-9	Surface	Lead	420.00	328.00	Yes	4.00	9.20
SB-3-SO-11	Surface	Lead	980.00	328.00	Yes	0.50	12.69
SB-3-SO-11	Surface	Zinc	29000.00	14200.00	Yes	0.50	12.69
SB-7-SO-3	Surface	Arsenic	22.00	19.00	Yes	8.00	14.15
SB-7-SO-3	Surface	Lead	350.00	328.00	Yes	10.00	14.15
SB-7-SO-4	Surface	Chromium	6600.00	1540.00	Yes	4.00	15.45
SB-7-SO-5	Surface	Lead	690.00	328.00	Yes	4.00	14.29
SB-7-SO-5	Surface	Nickel	11000.00	9200.00	Yes	4.00	14.29
SB-7-SO-6	Surface	Arsenic	25.00	19.00	Yes	4.00	15.79
SB-7-SO-6	Surface	Chromium	2700.00	1540.00	Yes	4.00	15.79
SB-7-SO-6	Surface	Trichloroethene	1.60	1.00	Yes	4.00	15.79
SB-7-SO-7	Surface	Chromium	8100.00	1540.00	Yes	2.00	14.45
SB-8-SO-11	Subsurface	Arsenic	24.00	19.00	Yes	8.00	9.25
SB-8-SO-11	Subsurface	Benzene	1.40	1.00	Yes	8.00	9.25
SB-8-SO-11	Subsurface	Lead	4300.00	328.00	Yes	8.00	9.25
SB-8-SO-11-102	Surface	Lead	1110.00	328.00	Yes	3.50	9.18
SB-8-SO-11-103	Surface	Lead	436.00	328.00	Yes	4.00	9.28
SB-8-SO-14	Surface	Lead	1000.00	328.00	Yes	10.00	13.16
SB-8-SO-14	Surface	Zinc	28000.00	14200.00	Yes	10.00	13.16
SB-8-SO-14-100	Surface	Benzene	1.20	1.00	Yes	10.50	13.16
SB-8-SO-14-100	Surface	Lead	4770.00	328.00	Yes	8.25	13.16
SB-8-SO-14-101	Subsurface	Benzene	1.10	1.00	Yes	11.50	12.19
SB-8-SO-14-101	Surface	Lead	1230.00	328.00	Yes	8.25	12.19
SB-8-SO-14-101	Subsurface	Lead	719.00	328.00	Yes	11.50	12.19

TABLE 3
SINGLE POINT COMPARISON TO IGWSSSRS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)
SB-9-SO-11-A	Surface	Arsenic	20.20	19.00	Yes	0.50	9.92
SB-9-SO-2-A	Surface	Arsenic	44.70	19.00	Yes	0.50	8.85
SB-9-SO-3	Surface	Zinc	44000.00	14200.00	Yes	0.50	8.82
SB-9-SO-3-A	Surface	Arsenic	133.00	19.00	Yes	2.00	8.82
SB-9-SO-4-A	Surface	Arsenic	241.00	19.00	Yes	0.50	9.63
SB9-SO-5	Surface	Arsenic	48.00	19.00	Yes	0.50	10.87
SB-9-SO-7	Surface	Arsenic	31.00	19.00	Yes	0.50	6.16
SB-9-SO-8-A	Surface	Arsenic	224.00	19.00	Yes	0.50	10.12
SB-9-SO-8-A-EX1A	Surface	Arsenic	34.00	19.00	Yes	2.00	10.12
SB-9-SO-8-A-EX1C	Surface	Arsenic	250.00	19.00	Yes	0.50	10.12
SB-AOC09-2013-101	Surface	Arsenic	25.70	19.00	Yes	4.50	6.91
SB-AOC09-2013-102	Surface	Arsenic	325.00	19.00	Yes	4.50	6.05
SB-AOC09-2013-104	Surface	Arsenic	135.00	19.00	Yes	4.50	3.03
SB-AOC09-2013-104-EX1A	Surface	Arsenic	220.00	19.00	Yes	2.00	3.03
SB-AOC09-2013-104-EX1C	Surface	Arsenic	60.00	19.00	Yes	0.50	3.03
SB-AOC09-2013-104-EX1E	Surface	Arsenic	21.00	19.00	Yes	0.50	3.03
SB-AOC09-2013-105	Subsurface	Arsenic	61.10	19.00	Yes	4.50	2.35
SB-AOC10-2013-103	Surface	Zinc	24700.00	14200.00	Yes	5.50	9.27
SB-AOC10-2013-106	Surface	Chromium	3590.00	1540.00	Yes	5.50	8.24
SB-AOC10-2013-106	Surface	Lead	1400.00	328.00	Yes	5.50	8.24
SB-AOC10-2013-106	Surface	Nickel	12200.00	9200.00	Yes	5.50	8.24
SB-AOC10-2013-108	Surface	Zinc	17700.00	14200.00	Yes	7.00	9.72
SB-AOC10-2013-109	Subsurface	Lead	385.00	328.00	Yes	9.00	9.53
SB-AOC10-2013-109	Subsurface	Zinc	40300.00	14200.00	Yes	9.00	9.53
SB-AOC10-2013-115	Surface	Chromium	10800.00	1540.00	Yes	5.00	7.92
SB-AOC10-2013-115	Surface	Lead	4000.00	328.00	Yes	5.00	7.92
SB-AOC10-2013-115	Surface	Nickel	24800.00	9200.00	Yes	5.00	7.92
SB-AOC10-2013-115	Surface	Zinc	40700.00	14200.00	Yes	5.00	7.92
SB-AOC10-2013-116	Surface	Zinc	60700.00	14200.00	Yes	0.50	8.64
SB-AOC10-2013-117	Surface	Lead	378.00	328.00	Yes	4.50	8.04
SB-AOC10-2013-118	Surface	Lead	484.00	328.00	Yes	4.50	6.64
SB-AOC10-2013-119	Surface	Chromium	4500.00	1540.00	Yes	4.50	7.30
SB-AOC10-2013-119	Surface	Lead	1670.00	328.00	Yes	4.50	7.30
SB-AOC10-2013-119	Surface	Nickel	13800.00	9200.00	Yes	4.50	7.30
SB-AOC10-2013-119	Surface	Zinc	20700.00	14200.00	Yes	4.50	7.30

TABLE 3
SINGLE POINT COMPARISON TO IGWSSSRS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)
SB-AOC10-2013-121	Surface	Lead	624.00	328.00	Yes	0.50	7.18
SB-AOC10-2013-122	Surface	Chromium	2040.00	1540.00	Yes	0.50	6.74
SB-AOC10-2013-122	Surface	Lead	741.00	328.00	Yes	0.50	6.74
SB-AOC10-2013-124	Surface	Chromium	2850.00	1540.00	Yes	4.00	7.29
SB-AOC10-2013-124	Surface	Lead	1120.00	328.00	Yes	4.00	7.29
SB-AOC10-2013-126	Surface	Lead	577.00	328.00	Yes	0.50	9.18
SB-AOC10-2013-127	Surface	Lead	922.00	328.00	Yes	4.00	8.46
SB-AOC10-2013-128	Surface	Lead	620.00	328.00	Yes	4.00	7.29
SB-AOC1C-2013-107	Surface	Trichloroethene	7.90	1.00	Yes	1.00	10.89
SB-AOC8B-2013-101	Surface	Lead	457.00	328.00	Yes	10.00	12.62
SB-AOC8B-2013-104	Subsurface	Benzene	1.30	1.00	Yes	10.00	10.20
SB-AOC8B-2013-104	Subsurface	Chlorobenzene	87.00	83.00	Yes	10.00	10.20
SB-AOC8B-2013-104	Subsurface	Lead	366.00	328.00	Yes	10.00	10.20
SB-AOC8B-2013-104	Subsurface	Nickel	33900.00	9200.00	Yes	10.00	10.20
SB-AOC8B-2013-104	Subsurface	Zinc	20100.00	14200.00	Yes	10.00	10.20
SB-AOC8B-2013-105	Subsurface	Arsenic	37.40	19.00	Yes	10.00	10.66
SB-F10	Surface	Trichloroethene	31.00	1.00	Yes	2.00	13.05
SR-1	Surface	Chromium	5900.00	1540.00	Yes	1.00	16.11
TP7-4	Surface	Lead	441.00	328.00	Yes	0.50	15.68
TP9-2	Surface	Lead	1100.00	328.00	Yes	4.00	12.96
TP9-2-102	Surface	Lead	569.00	328.00	Yes	5.00	13.02
TP9-2-103	Surface	Lead	670.00	328.00	Yes	5.00	12.91
TP9-2-202	Surface	Arsenic	43.40	19.00	Yes	3.00	13.23
TP9-2-204	Surface	Trichloroethene	1.30	1.00	Yes	3.00	13.98
TP9-2-300	Surface	Arsenic	29.30	19.00	Yes	0.50	11.75
TP9-2-304	Surface	Zinc	34200.00	14200.00	Yes	5.00	14.31
TP9-3	Surface	Benzene	1.70	1.00	Yes	1.00	13.86
TP9-3	Surface	Zinc	32000.00	14200.00	Yes	1.00	13.86
TP9-3-203	Surface	Arsenic	23.40	19.00	Yes	3.00	14.14
TP9-3-203	Surface	Chlorobenzene	130.00	83.00	Yes	3.00	14.14
TP9-3-304	Surface	Lead	3350.00	328.00	Yes	3.50	14.26
TP9-3-305	Surface	Arsenic	34.90	19.00	Yes	0.50	14.60
TP9-3-305	Surface	Benzene	1.20	1.00	Yes	3.50	14.60
TP9-3-305	Surface	Zinc	15900.00	14200.00	Yes	3.50	14.60
XSO2-A	Surface	Arsenic	43.8	19	Yes	0.5	8.42

TABLE 4
LEAD IMMOBILE CONSTITUENT EVALUATION
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)	Compliant with Immobile Constituent
268-1	Surface	Lead	690.00	328.00	Yes	1.50	15.71	Yes
268-2	Surface	Lead	1860.00	328.00	Yes	3.75	15.40	Yes
ASO12	Surface	Lead	804.00	328.00	Yes	1.00	9.59	Yes
ASO12-100	Surface	Lead	1570.00	328.00	Yes	1.00	9.59	Yes
ASO12-101	Surface	Lead	542.00	328.00	Yes	1.00	9.69	Yes
ASO13	Surface	Lead	576.00	328.00	Yes	1.00	9.49	Yes
ASO17	Surface	Lead	679.00	328.00	Yes	0.75	8.00	Yes
ASO20	Surface	Lead	888.00	328.00	Yes	0.75	9.82	Yes
ASO20-100	Surface	Lead	490.00	328.00	Yes	0.75	9.91	Yes
ASO20-101	Surface	Lead	1230.00	328.00	Yes	0.70	9.86	Yes
ASO21	Surface	Lead	457.00	328.00	Yes	0.75	7.90	Yes
ASO23	Surface	Lead	1200.00	328.00	Yes	1.00	9.39	Yes
ASO23-100	Surface	Lead	541.00	328.00	Yes	1.00	9.43	Yes
ASO23-102	Surface	Lead	1110.00	328.00	Yes	1.00	9.26	Yes
B-4E	Surface	Lead	340.00	328.00	Yes	0.50	16.03	Yes
B6-3	Surface	Lead	420.00	328.00	Yes	1.00	9.62	Yes
B7-3	Surface	Lead	430.00	328.00	Yes	4.00	13.34	Yes
B8-8	Surface	Lead	860.00	328.00	Yes	10.00	13.15	Yes
B8-8-2-100	Surface	Lead	3520.00	328.00	Yes	8.25	13.05	Yes
B8-8-2-101	Surface	Lead	2070.00	328.00	Yes	8.25	13.11	Yes
B8-8-4-102	Surface	Lead	686.00	328.00	Yes	11.50	14.46	Yes
HSO13	Surface	Lead	398.00	328.00	Yes	0.50	7.73	Yes
ISO6	Surface	Lead	9390.00	328.00	Yes	1.50	14.91	Yes
ISO6-100	Surface	Lead	1280.00	328.00	Yes	1.50	14.91	Yes
ISO6-101	Surface	Lead	1160.00	328.00	Yes	1.50	14.92	Yes
ISO6-103	Surface	Lead	775.00	328.00	Yes	1.50	14.85	Yes
ISO7	Surface	Lead	334.00	328.00	Yes	9.00	14.59	Yes
MC3-1	Surface	Lead	382.00	328.00	Yes	8.50	13.08	Yes
MOA-C-B11	Surface	Lead	1040.00	328.00	Yes	4.00	15.64	Yes
MOA-C-B13	Surface	Lead	2390.00	328.00	Yes	8.00	15.98	Yes
MOA-C-B7	Surface	Lead	1070.00	328.00	Yes	4.00	15.20	Yes
MOA-C-B8	Surface	Lead	906.00	328.00	Yes	2.00	14.52	Yes
MOA-C-B8-100	Surface	Lead	398.00	328.00	Yes	2.50	14.52	Yes
MOA-C-B8-101	Surface	Lead	423.00	328.00	Yes	2.50	15.45	Yes
MOA-C-B8-103	Surface	Lead	1130.00	328.00	Yes	2.50	15.41	Yes

TABLE 4
LEAD IMMOBILE CONSTITUENT EVALUATION
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)	Compliant with Immobile Constituent
PL05-03	Surface	Lead	1070.00	328.00	Yes	7.00	10.69	Yes
PL07-105	Surface	Lead	398.00	328.00	Yes	1.00	14.75	Yes
PL12-08	Surface	Lead	2410.00	328.00	Yes	5.00	9.54	Yes
SB-10-SO-2	Subsurface	Lead	1200.00	328.00	Yes	6.00	7.60	Yes
SB-10-SO-5-100	Surface	Lead	1210.00	328.00	Yes	2.00	6.64	Yes
SB-10-SO-5-101	Surface	Lead	1440.00	328.00	Yes	1.50	6.60	Yes
SB-10-SO-5-102	Surface	Lead	2400.00	328.00	Yes	1.50	6.66	Yes
SB-10-SO-5-103	Surface	Lead	477.00	328.00	Yes	1.50	6.65	Yes
SB-10-SO-5A	Subsurface	Lead	3900.00	328.00	Yes	4.00	5.79	Yes
SB-10-SO-5A-100	Surface	Lead	916.00	328.00	Yes	2.50	5.79	Yes
SB-10-SO-5A-101	Surface	Lead	504.00	328.00	Yes	2.50	5.81	Yes
SB-10-SO-7	Surface	Lead	4700.00	328.00	Yes	5.00	8.89	Yes
SB-10-SO-7-103	Surface	Lead	1960.00	328.00	Yes	6.00	8.83	Yes
SB-10-SO-9	Surface	Lead	420.00	328.00	Yes	4.00	9.20	Yes
SB-7-SO-5	Surface	Lead	690.00	328.00	Yes	4.00	14.29	Yes
SB-8-SO-11-102	Surface	Lead	1110.00	328.00	Yes	3.50	9.18	Yes
SB-8-SO-11-103	Surface	Lead	436.00	328.00	Yes	4.00	9.28	Yes
SB-AOC10-2013-117	Surface	Lead	378.00	328.00	Yes	4.50	8.04	Yes
SB-AOC10-2013-119	Surface	Lead	1670.00	328.00	Yes	4.50	7.30	Yes
SB-AOC10-2013-121	Surface	Lead	624.00	328.00	Yes	0.50	7.18	Yes
SB-AOC10-2013-122	Surface	Lead	741.00	328.00	Yes	0.50	6.74	Yes
SB-AOC10-2013-124	Surface	Lead	1120.00	328.00	Yes	4.00	7.29	Yes
SB-AOC10-2013-126	Surface	Lead	577.00	328.00	Yes	0.50	9.18	Yes
SB-AOC10-2013-127	Surface	Lead	922.00	328.00	Yes	4.00	8.46	Yes
SB-AOC10-2013-128	Surface	Lead	620.00	328.00	Yes	4.00	7.29	Yes
TP7-4	Surface	Lead	441.00	328.00	Yes	0.50	15.68	Yes
TP9-2	Surface	Lead	1100.00	328.00	Yes	4.00	12.96	Yes
TP9-2-102	Surface	Lead	569.00	328.00	Yes	5.00	13.02	Yes
TP9-2-103	Surface	Lead	670.00	328.00	Yes	5.00	12.91	Yes
TP9-3-304	Surface	Lead	3350.00	328.00	Yes	3.50	14.26	Yes

TABLE 5
FUNCTIONAL AREA ANALYSIS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)	Local Delineation Sufficient for FA Averaging	Functional Area (FA)	FA Averaging Result Below IGWSSSRS (Y/N and type)
268-2	Surface	Zinc	37800.00	14200.00	Yes	3.75	15.40	Yes	SURF-ZN-10	Y SWA
ASO12	Surface	Lead	804.00	328.00	Yes	1.00	9.59	Yes	Surf-PB-12	Yes SWA
ASO12-100	Surface	Lead	1570.00	328.00	Yes	1.00	9.59	Yes	Surf-PB-12	Yes SWA
ASO12-101	Surface	Lead	542.00	328.00	Yes	1.00	9.69	Yes	Surf-PB-12	Yes SWA
ASO13	Surface	Lead	576.00	328.00	Yes	1.00	9.49	Yes	Surf-PB-12	Yes SWA
ASO14	Surface	Lead	503.00	328.00	Yes	1.00	9.03	Yes	Surf-PB-12	Yes SWA
ASO23	Surface	Lead	1200.00	328.00	Yes	1.00	9.39	Yes	Surf-PB-12	Yes SWA
ASO23-102	Surface	Lead	1110.00	328.00	Yes	1.00	9.26	Yes	Surf-PB-12	Yes SWA
B10-3	Surface	Arsenic	25.00	19.00	Yes	4.00	10.22	No	SURF-AS-01	Yes, SWA
B2-1	Surface	Benzene	1.50	1.00	Yes	10.00	14.86	Yes	SURF-BZ-05	Y SWA
B2-1	Surface	Trichloroethene	2.50	1.00	Yes	10.00	14.86	Yes	SURF-TCE-03	Y SWA
B2-1-200	Surface	Benzene	2.10	1.00	Yes	12.00	14.83	Yes	SURF-BZ-05	Y SWA
B2-1-200	Surface	Trichloroethene	2.10	1.00	Yes	12.00	14.83	Yes	SURF-TCE-03	Y SWA
B2-2	Surface	Benzene	15.00	1.00	Yes	9.50	14.95	Yes	SURF-BZ-05	Y SWA
B2-2	Surface	Trichloroethene	15.00	1.00	Yes	9.50	14.95	Yes	SURF-TCE-03	Y SWA
B2-2-200	Surface	Benzene	1.10	1.00	Yes	12.00	14.95	Yes	SURF-BZ-05	Y SWA
B2-2-200	Surface	Trichloroethene	1.10	1.00	Yes	12.00	14.95	Yes	SURF-TCE-03	Y SWA
B3-16-A	Surface	Arsenic	37.40	19.00	Yes	1.00	13.16	Yes	Surf-AS-14	Yes, SWA
B3-5	Subsurface	Benzene	1.50	1.00	Yes	10.00	11.87	Yes	SUB-BZ-01	Y SWA
B-4E	Surface	Lead	340.00	328.00	Yes	0.50	16.03	Yes	Surf-PB-13	Yes, once others removed
B6-201	Surface	Arsenic	76.20	19.00	Yes	1.00	14.34	Yes	Surf-AS-15	No
B6-3	Surface	Lead	420.00	328.00	Yes	1.00	9.62	Yes	Surf-PB-12	Yes SWA
B6-3-A	Surface	Arsenic	28.20	19.00	Yes	1.00	9.62	No	Surf-AS-18	Yes, SWA
B7-1	Surface	Arsenic	22.00	19.00	Yes	0.50	14.70	Yes	Surf-AS-10	Yes, SWA
B7-2	Surface	Arsenic	180.00	19.00	Yes	3.50	14.68	Yes	Surf-AS-08	Yes, SWA
B7-2-EX1B	Surface	Arsenic	28.00	19.00	Yes	0.50	14.68	Yes	Surf-AS-08	Yes, SWA
B7-2-EX1C	Surface	Arsenic	20.00	19.00	Yes	2.00	14.68	Yes	Surf-AS-08	Yes, SWA
B7-3	Surface	Lead	430.00	328.00	Yes	4.00	13.34	Yes	Surf-PB-11	Yes, once others removed
B7-3	Surface	Vinyl Chloride	12.00	10.00	Yes	10.50	13.34	Yes	SURF-VC-01	Y SWA
B7-5-A	Surface	Arsenic	29.60	19.00	Yes	3.00	15.57	Yes	Surf-AS-10	Yes, SWA
B8-2	Surface	Lead	670.00	328.00	Yes	4.00	9.45	Yes	Surf-PB-01	Yes SWA
B8-4	Subsurface	Benzene	1.80	1.00	Yes	8.00	9.75	Yes	SUB-BZ-03	Y SWA
B8-4	Subsurface	Chromium	2400.00	1540.00	Yes	8.00	9.75	Yes	SUB-CR-02	Y SWA
B8-4	Subsurface	Lead	800.00	328.00	Yes	8.00	9.75	Yes	SUB-PB-03	Yes once other locations are removed
B8-4	Subsurface	Zinc	22000.00	14200.00	Yes	8.00	9.75	Yes	SUB-ZN-02	Y SWA

TABLE 5
FUNCTIONAL AREA ANALYSIS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)	Local Delineation Sufficient for FA Averaging	Functional Area (FA)	FA Averaging Result Below IGWSSSRS (Y/N and type)
B8-4-100	Subsurface	Lead	1810.00	328.00	Yes	8.50	9.11	Yes	SUB-PB-03	No
B8-4-101	Subsurface	Lead	331.00	328.00	Yes	8.50	9.52	Yes	SUB-PB-03	Yes once other locations are removed
B8-4-102	Subsurface	Lead	1010.00	328.00	Yes	8.50	8.72	Yes	SUB-PB-03	Yes once other locations are removed
B8-5	Surface	Arsenic	30.00	19.00	Yes	0.50	9.47	No	Surf-AS-04	Yes, SWA
B8-6	Subsurface	Lead	1200.00	328.00	Yes	8.00	9.69	Yes	SUB-PB-07	No
B8-6-100	Subsurface	Lead	396.00	328.00	Yes	10.00	9.69	Yes	SUB-PB-07	No
B8-6-101	Surface	Lead	336.00	328.00	Yes	6.00	9.69	Yes	Surf-PB-05	Yes, once others removed
B8-6-103	Surface	Benzene	2.90	1.00	Yes	6.50	10.65	Yes	SURF-BZ-02	Y SWA
B8-6-103	Surface	Lead	7510.00	328.00	Yes	6.50	10.65	Yes	Surf-PB-05	No
B8-8	Surface	Benzene	16.00	1.00	Yes	10.00	13.15	Yes	SURF-BZ-02	Y SWA
B8-8	Surface	Lead	860.00	328.00	Yes	10.00	13.15	Yes	Surf-PB-04	Yes, once others removed
B8-8-1	Surface	Benzene	1.60	1.00	Yes	12.50	14.55	Yes	SURF-BZ-02	Y SWA
B8-8-1	Surface	Lead	577.00	328.00	Yes	8.25	14.55	Yes	Surf-PB-04	Yes, once others removed
B8-8-1	Surface	Zinc	16800.00	14200.00	Yes	12.50	14.55	No	SURF-ZN-04	Y, SWA
B8-8-2-100	Surface	Benzene	1.60	1.00	Yes	8.25	13.05	Yes	SURF-BZ-02	Y SWA
B8-8-2-101	Surface	Lead	2070.00	328.00	Yes	8.25	13.11	No	Surf-PB-04	No
B8-8-2-102	Surface	Trichloroethene	13.00	1.00	Yes	10.00	13.02	Yes	SURF-TCE-04	No
B8-8-4-102	Surface	Lead	686.00	328.00	Yes	11.50	14.46	No	Surf-PB-04	Yes, once others removed
B9-12-100	Surface	Arsenic	31.40	19.00	Yes	3.00	8.13	Yes	Surf-AS-03	Yes, SWA
B9-12-101	Surface	Arsenic	55.00	19.00	Yes	0.50	8.91	Yes	Surf-AS-03	Yes, SWA
B9-12-102	Surface	Arsenic	23.90	19.00	Yes	0.50	8.14	Yes	Surf-AS-03	Yes, SWA
B9-12-103	Surface	Arsenic	42.00	19.00	Yes	0.50	8.18	Yes	Surf-AS-03	Yes, SWA
B9-13-A	Surface	Arsenic	25.90	19.00	Yes	0.50	8.67	Yes	Surf-AS-02	Yes, SWA
B9-14	Surface	Arsenic	90.00	19.00	Yes	2.00	8.92	Yes	SURF-AS-02	Yes, SWA
B9-15-A	Surface	Arsenic	50.10	19.00	Yes	0.50	8.18	Yes	Surf-AS-02	Yes, SWA
B9-16-100	Surface	Arsenic	48.90	19.00	Yes	0.50	8.44	Yes	Surf-AS-02	Yes, SWA
B9-16-101	Surface	Arsenic	47.50	19.00	Yes	0.50	8.52	Yes	Surf-AS-02	Yes, SWA
B9-16-102	Surface	Arsenic	51.50	19.00	Yes	0.50	8.41	Yes	Surf-AS-02	Yes, SWA
B9-2-100	Surface	Arsenic	365.00	19.00	Yes	0.50	6.76	Yes	Surf-AS-11	No
B9-2-101	Surface	Arsenic	356.00	19.00	Yes	0.50	6.21	Yes	Surf-AS-11	No
B9-2-102	Surface	Arsenic	26.30	19.00	Yes	0.50	7.19	Yes	Surf-AS-11	Yes, once others removed
B9-2-103	Surface	Arsenic	407.00	19.00	Yes	0.50	7.08	Yes	Surf-AS-11	No
B9-3-A	Surface	Arsenic	33.80	19.00	Yes	0.50	4.47	Yes	Surf-AS-11	Yes, once others removed
B9-9-A	Surface	Arsenic	84.60	19.00	Yes	0.50	8.72	Yes	Surf-AS-03	Yes, SWA
CE-1-101	Surface	Arsenic	22.50	19.00	Yes	8.00	12.62	Yes	Surf-AS-08	Yes, SWA

TABLE 5
FUNCTIONAL AREA ANALYSIS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)	Local Delineation Sufficient for FA Averaging	Functional Area (FA)	FA Averaging Result Below IGWSSSRS (Y/N and type)
CE-1-102	Surface	Arsenic	163.00	19.00	Yes	8.00	12.67	Yes	Surf-AS-08	Yes, SWA
FSO27-A	Surface	Arsenic	31.00	19.00	Yes	1.00	10.42	No	Surf-AS-15	Yes, once others removed
FSO29	Surface	Arsenic	30.60	19.00	Yes	0.50	8.66	No	Surf-AS-15	Yes, once others removed
FSO3	Surface	Arsenic	20.10	19.00	Yes	0.50	13.05	No	Surf-AS-14	Yes, SWA
FSO5-A	Surface	Arsenic	109.00	19.00	Yes	0.50	14.28	Yes	Surf-AS-14	Yes, SWA
GRB2-1	Surface	Arsenic	31.00	19.00	Yes	0.50	14.60	Yes	Surf-AS-17	Yes, SWA
GRB2-1	Surface	Lead	9200.00	328.00	Yes	0.50	14.60	No	Surf-PB-08	No
HSO12	Surface	Zinc	28100.00	14200.00	Yes	0.50	8.06	Yes	SURF-ZN-02	Y 95UCL
HSO13	Surface	Lead	398.00	328.00	Yes	0.50	7.73	Yes	Surf-PB-03	Yes, once others removed
HSO14-A	Surface	Arsenic	38.20	19.00	Yes	0.50	7.95	Yes	Surf-AS-03	Yes, SWA
ISO11	Surface	Arsenic	20.20	19.00	Yes	1.00	14.61	Yes	Surf-AS-10	Yes, SWA
ISO23	Surface	Trichloroethene	1.60	1.00	Yes	8.50	11.79	Yes	SURF-TCE-07	Y SWA
ISO5-100	Surface	Lead	460.00	328.00	Yes	1.50	14.67	Yes	Surf-PB-11	Yes, once others removed
ISO5-101	Surface	Arsenic	33.70	19.00	Yes	1.50	14.67	Yes	Surf-AS-12	Yes, once others removed
ISO5-102	Surface	Arsenic	28.50	19.00	Yes	1.50	14.73	Yes	Surf-AS-12	Yes, once others removed
ISO5-103	Surface	Lead	1610.00	328.00	Yes	3.00	14.62	Yes	Surf-PB-11	No
ISO6	Surface	Lead	9390.00	328.00	Yes	1.50	14.91	Yes	Surf-PB-11	No
ISO6-100	Surface	Arsenic	34.70	19.00	Yes	1.50	14.91	Yes	Surf-AS-12	Yes, once others removed
ISO6-100	Surface	Lead	1280.00	328.00	Yes	1.50	14.91	Yes	Surf-PB-11	No
ISO6-101	Surface	Lead	1160.00	328.00	Yes	1.50	14.92	Yes	Surf-PB-11	Yes, once others removed
ISO6-102	Surface	Arsenic	62.80	19.00	Yes	1.50	14.97	Yes	Surf-AS-12	No
ISO6-103	Surface	Arsenic	71.20	19.00	Yes	1.50	14.85	Yes	Surf-AS-12	No
ISO6-103	Surface	Lead	775.00	328.00	Yes	1.50	14.85	No	Surf-PB-11	Yes, once others removed
ISO7-101	Surface	Arsenic	19.30	19.00	Yes	1.50	14.54	Yes	Surf-AS-10	Yes, SWA
ISO7-103	Surface	Arsenic	44.50	19.00	Yes	3.00	14.49	No	Surf-AS-10	Yes, SWA
JSO11-101	Surface	Lead	1290.00	328.00	Yes	6.50	10.04	Yes	Surf-PB-05	Yes, once others removed
JSO11-101	Subsurface	Lead	526.00	328.00	Yes	10.00	10.04	Yes	SUB-PB-05	Yes once other locations are removed
JSO19	Surface	Trichloroethene	4.60	1.00	Yes	4.00	11.95	Yes	SURF-TCE-09	Y SWA
JSO29	Surface	Trichloroethene	1.50	1.00	Yes	4.00	11.77	Yes	SURF-TCE-09	Y SWA
MC7-1	Surface	Benzene	1.40	1.00	Yes	11.00	14.81	Yes	SURF-BZ-05	Y SWA
MC7-1	Surface	Trichloroethene	1.40	1.00	Yes	11.00	14.81	Yes	SURF-TCE-03	Y SWA
MOA-C-B11	Surface	Chromium	1700.00	1540.00	Yes	4.00	15.64	Yes	SURF-CR-08	Y SWA
MOA-C-B11	Surface	Lead	1040.00	328.00	Yes	4.00	15.64	Yes	Surf-PB-13	Yes, once others removed
MOA-C-B13	Surface	Arsenic	24.80	19.00	Yes	8.00	15.98	Yes	Surf-AS-10	Yes, SWA
MOA-C-B13	Surface	Chromium	1650.00	1540.00	Yes	8.00	15.98	Yes	SURF-CR-08	Y SWA

TABLE 5
FUNCTIONAL AREA ANALYSIS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)	Local Delineation Sufficient for FA Averaging	Functional Area (FA)	FA Averaging Result Below IGWSSSRS (Y/N and type)
MOA-C-B13	Surface	Lead	2390.00	328.00	Yes	8.00	15.98	Yes	Surf-PB-13	No
MOA-C-B15	Surface	Chromium	1850.00	1540.00	Yes	6.00	16.25	Yes	SURF-CR-06	Y SWA
MOA-C-B15	Surface	Lead	894.00	328.00	Yes	12.00	16.25	Yes	Surf-PB-13	Yes, once others removed
MOA-C-B7	Surface	Chromium	2200.00	1540.00	Yes	4.00	15.20	Yes	SURF-CR-06	Y SWA
MOA-C-B7	Surface	Lead	1070.00	328.00	Yes	4.00	15.20	Yes	Surf-PB-13	No
MOA-C-B8-100	Surface	Arsenic	26.80	19.00	Yes	2.50	14.52	Yes	Surf-AS-08	Yes, SWA
MOA-C-B8-100	Surface	Zinc	28600.00	14200.00	Yes	1.00	14.52	Yes	SURF-ZN-08	Y SWA
MOA-C-B8-103	Surface	Arsenic	19.80	19.00	Yes	2.50	15.41	Yes	Surf-AS-08	Yes, SWA
MOA-C-B8-103	Surface	Chromium	1550.00	1540.00	Yes	2.50	15.41	Yes	SURF-CR-06	Y SWA
MOA-C-B8-103	Surface	Lead	1130.00	328.00	Yes	2.50	15.41	Yes	Surf-PB-13	No
MW-22	Surface	Arsenic	91.00	19.00	Yes	4.00	14.03	No	Surf-AS-07	No
PL05-03	Surface	Lead	1070.00	328.00	Yes	7.00	10.69	Yes	Surf-PB-06	Yes SWA
PL07-01	Surface	Nickel	11100.00	9200.00	Yes	3.50	13.83	Yes	SURF-NI-05	Y SWA
PL07-02	Surface	Chromium	5080.00	1540.00	Yes	3.50	13.09	Yes	SURF-CR-11	Y SWA
PL07-107	Surface	Lead	517.00	328.00	Yes	5.00	14.39	Yes	Surf-PB-07	Yes SWA
PL07-107	Surface	Nickel	31100.00	9200.00	Yes	5.00	14.39	Yes	SURF-NI-05	Y SWA
PL09-01	Surface	Chromium	3620.00	1540.00	Yes	4.50	9.42	No	SURF-CR-10	Y SWA
PL10-101	Surface	Lead	4810.00	328.00	Yes	3.50	6.34	Yes	Surf-PB-14	No
PL10-11	Surface	Lead	341.00	328.00	Yes	3.50	6.27	Yes	Surf-PB-14	Yes, once others removed
PL10-13	Surface	Lead	352.00	328.00	Yes	3.50	8.00	Yes	Surf-PB-14	Yes, once others removed
PL10-15	Surface	Arsenic	30.80	19.00	Yes	3.50	9.27	Yes	Surf-AS-19	Yes, SWA
SB-10-SO-1	Surface	Arsenic	20.00	19.00	Yes	2.00	6.22	Yes	Surf-AS-03	Yes, SWA
SB-10-SO-10	Subsurface	Chromium	1800.00	1540.00	Yes	6.00	7.91	Yes	SUB-CR-01	Y SWA
SB-10-SO-10	Subsurface	Lead	830.00	328.00	Yes	6.00	7.91	Yes	SUB-PB-01	Yes SWA
SB-10-SO-10	Subsurface	Zinc	15000.00	14200.00	Yes	6.00	7.91	Yes	SUB-ZN-01	Y SWA
SB-10-SO-10-100	Subsurface	Lead	793.00	328.00	Yes	6.50	7.91	Yes	SUB-PB-01	Yes SWA
SB-10-SO-10-101	Subsurface	Lead	712.00	328.00	Yes	7.00	7.87	Yes	SUB-PB-01	Yes SWA
SB-10-SO-10-101	Surface	Lead	462.00	328.00	Yes	5.00	7.87	Yes	Surf-PB-01	Yes SWA
SB-10-SO-10-102	Surface	Lead	410.00	328.00	Yes	6.00	8.00	Yes	Surf-PB-01	Yes SWA
SB-10-SO-10-103	Subsurface	Lead	468.00	328.00	Yes	7.00	7.89	Yes	SUB-PB-01	Yes SWA
SB-10-SO-10-103	Surface	Lead	362.00	328.00	Yes	0.50	7.89	Yes	Surf-PB-01	Yes SWA
SB-10-SO-2	Subsurface	Chromium	2600.00	1540.00	Yes	6.00	7.60	Yes	SUB-CR-03	Y SWA
SB-10-SO-2	Subsurface	Lead	1200.00	328.00	Yes	6.00	7.60	Yes	Sub-PB-06	Yes SWA
SB-10-SO-209	Subsurface	Chromium	2260.00	1540.00	Yes	10.00	10.57	Yes	SUB-CR-01	Y SWA
SB-10-SO-209	Subsurface	Lead	769.00	328.00	Yes	10.00	10.57	No	SUB-PB-02	No

TABLE 5
FUNCTIONAL AREA ANALYSIS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)	Local Delineation Sufficient for FA Averaging	Functional Area (FA)	FA Averaging Result Below IGWSSSRS (Y/N and type)
SB-10-SO-209	Subsurface	Zinc	20900.00	14200.00	Yes	10.00	10.57	Yes	SUB-ZN-01	Y SWA
SB-10-SO-5-100	Surface	Chromium	3320.00	1540.00	Yes	2.00	6.64	Yes	SURF-CR-03	Y SWA
SB-10-SO-5-100	Surface	Lead	1210.00	328.00	Yes	2.00	6.64	Yes	Surf-PB-03	Yes, once others removed
SB-10-SO-5-100	Subsurface	Lead	333.00	328.00	Yes	5.00	6.64	Yes	Sub-PB-02	Yes SWA
SB-10-SO-5-100	Surface	Nickel	10600.00	9200.00	Yes	2.00	6.64	Yes	SURF-NI-01	Y SWA
SB-10-SO-5-101	Surface	Chromium	2820.00	1540.00	Yes	1.50	6.60	Yes	SURF-CR-03	Y SWA
SB-10-SO-5-101	Surface	Lead	1440.00	328.00	Yes	1.50	6.60	Yes	Surf-PB-03	Yes, once others removed
SB-10-SO-5-102	Surface	Chromium	8520.00	1540.00	Yes	1.50	6.66	Yes	SURF-CR-03	Y SWA
SB-10-SO-5-102	Surface	Lead	2400.00	328.00	Yes	1.50	6.66	Yes	Surf-PB-03	No
SB-10-SO-5-102	Surface	Nickel	20300.00	9200.00	Yes	1.50	6.66	Yes	SURF-NI-01	Y SWA
SB-10-SO-5-102	Surface	Zinc	29100.00	14200.00	Yes	1.50	6.66	Yes	SURF-ZN-05	Y SWA
SB-10-SO-5-103	Surface	Lead	477.00	328.00	Yes	1.50	6.65	Yes	Surf-PB-03	Yes, once others removed
SB-10-SO-5A	Subsurface	Lead	3900.00	328.00	Yes	4.00	5.79	Yes	SUB-PB-01	Yes SWA
SB-10-SO-5A-100	Surface	Chromium	2740.00	1540.00	Yes	2.50	5.79	Yes	SURF-CR-03	Y SWA
SB-10-SO-5A-100	Surface	Lead	916.00	328.00	Yes	2.50	5.79	No	Surf-PB-03	Yes, once others removed
SB-10-SO-5A-101	Surface	Lead	504.00	328.00	Yes	2.50	5.81	No	Surf-PB-03	Yes, once others removed
SB-10-SO-7-103	Surface	Chromium	4500.00	1540.00	Yes	6.00	8.83	Yes	SURF-CR-01	No
SB-10-SO-9	Surface	Lead	420.00	328.00	Yes	4.00	9.20	Yes	Surf-PB-01	Yes SWA
SB-3-SO-11	Surface	Lead	980.00	328.00	Yes	0.50	12.69	Yes	Surf-PB-09	Yes SWA
SB-3-SO-11	Surface	Zinc	29000.00	14200.00	Yes	0.50	12.69	Yes	SURF-ZN-09	Y SWA
SB-7-SO-3	Surface	Arsenic	22.00	19.00	Yes	8.00	14.15	Yes	Surf-AS-10	Yes, SWA
SB-7-SO-3	Surface	Lead	350.00	328.00	Yes	10.00	14.15	Yes	Surf-PB-10	Yes SWA
SB-7-SO-4	Surface	Chromium	6600.00	1540.00	Yes	4.00	15.45	Yes	SURF-CR-07	Y 95UCL
SB-7-SO-5	Surface	Nickel	11000.00	9200.00	Yes	4.00	14.29	Yes	SURF-NI-04	Y SWA
SB-7-SO-6	Surface	Arsenic	25.00	19.00	Yes	4.00	15.79	Yes	Surf-AS-10	Yes, SWA
SB-7-SO-6	Surface	Chromium	2700.00	1540.00	Yes	4.00	15.79	Yes	SURF-CR-07	Y 95UCL
SB-7-SO-6	Surface	Trichloroethene	1.60	1.00	Yes	4.00	15.79	Yes	SURF-TCE-08	Y SWA
SB-7-SO-7	Surface	Chromium	8100.00	1540.00	Yes	2.00	14.45	Yes	SURF-CR-05	No
SB-8-SO-11	Subsurface	Arsenic	24.00	19.00	Yes	8.00	9.25	Yes	IGW02	Yes, SWA
SB-8-SO-11	Subsurface	Benzene	1.40	1.00	Yes	8.00	9.25	Yes	SUB-BZ-02	Y SWA
SB-8-SO-11	Subsurface	Lead	4300.00	328.00	Yes	8.00	9.25	Yes	SUB-PB-05	No
SB-8-SO-11-102	Surface	Lead	1110.00	328.00	Yes	3.50	9.18	Yes	Surf-PB-05	Yes, once others removed
SB-8-SO-11-103	Surface	Lead	436.00	328.00	Yes	4.00	9.28	Yes	Surf-PB-05	Yes, once others removed
SB-8-SO-14	Surface	Lead	1000.00	328.00	Yes	10.00	13.16	Yes	Surf-PB-04	Yes, once others removed
SB-8-SO-14	Surface	Zinc	28000.00	14200.00	Yes	10.00	13.16	Yes	SURF-ZN-04	Y SWA

TABLE 5
FUNCTIONAL AREA ANALYSIS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)	Local Delineation Sufficient for FA Averaging	Functional Area (FA)	FA Averaging Result Below IGWSSSRS (Y/N and type)
SB-8-SO-14-100	Surface	Benzene	1.20	1.00	Yes	10.50	13.16	Yes	SURF-BZ-02	Y SWA
SB-8-SO-14-100	Surface	Lead	4770.00	328.00	Yes	8.25	13.16	Yes	Surf-PB-04	No
SB-8-SO-14-101	Subsurface	Benzene	1.10	1.00	Yes	11.50	12.19	Yes	SUB-BZ-04	Y SWA
SB-8-SO-14-101	Surface	Lead	1230.00	328.00	Yes	8.25	12.19	Yes	Surf-PB-04	Yes, once others removed
SB-8-SO-14-101	Subsurface	Lead	719.00	328.00	Yes	11.50	12.19	Yes	SUB-PB-04	Yes SWA
SB-9-SO-11-A	Surface	Arsenic	20.20	19.00	Yes	0.50	9.92	No	Surf-AS-03	Yes, SWA
SB-9-SO-2-A	Surface	Arsenic	44.70	19.00	Yes	0.50	8.85	Yes	Surf-AS-02	Yes, SWA
SB-9-SO-3	Surface	Zinc	44000.00	14200.00	Yes	0.50	8.82	Yes	SURF-ZN-06	Y SWA
SB-9-SO-3-A	Surface	Arsenic	133.00	19.00	Yes	2.00	8.82	Yes	Surf-AS-03	Yes, SWA
SB-9-SO-4-A	Surface	Arsenic	241.00	19.00	Yes	0.50	9.63	Yes	Surf-AS-05	No
SB9-SO-5	Surface	Arsenic	48.00	19.00	Yes	0.50	10.87	Yes	Surf-AS-06	Yes, SWA
SB-9-SO-8-A	Surface	Arsenic	224.00	19.00	Yes	0.50	10.12	Yes	Surf-AS-13	Yes, once others removed
SB-9-SO-8-A-EX1A	Surface	Arsenic	34.00	19.00	Yes	2.00	10.12	Yes	Surf-AS-13	Yes, once others removed
SB-9-SO-8-A-EX1C	Surface	Arsenic	250.00	19.00	Yes	0.50	10.12	Yes	Surf-AS-13	No
SB-AOC09-2013-101	Surface	Arsenic	25.70	19.00	Yes	4.50	6.91	Yes	Surf-AS-11	Yes, once others removed
SB-AOC09-2013-102	Surface	Arsenic	325.00	19.00	Yes	4.50	6.05	Yes	Surf-AS-11	No
SB-AOC09-2013-104	Surface	Arsenic	135.00	19.00	Yes	4.50	3.03	Yes	Surf-AS-20	No
SB-AOC09-2013-104-EX1A	Surface	Arsenic	220.00	19.00	Yes	2.00	3.03	Yes	Surf-AS-20	No
SB-AOC09-2013-104-EX1C	Surface	Arsenic	60.00	19.00	Yes	0.50	3.03	Yes	Surf-AS-09	Yes, once others removed
SB-AOC09-2013-104-EX1E	Surface	Arsenic	21.00	19.00	Yes	0.50	3.03	No	Surf-AS-09	Yes, SWA
SB-AOC10-2013-103	Surface	Zinc	24700.00	14200.00	Yes	5.50	9.27	Yes	SURF-ZN-03	Y SWA
SB-AOC10-2013-106	Surface	Chromium	3590.00	1540.00	Yes	5.50	8.24	Yes	SURF-CR-02	Y SWA
SB-AOC10-2013-106	Surface	Lead	1400.00	328.00	Yes	5.50	8.24	Yes	Surf-PB-02	No
SB-AOC10-2013-106	Surface	Nickel	12200.00	9200.00	Yes	5.50	8.24	Yes	SURF-NI-02	Y SWA
SB-AOC10-2013-108	Surface	Zinc	17700.00	14200.00	Yes	7.00	9.72	Yes	SURF-ZN-01	Y SWA
SB-AOC10-2013-109	Subsurface	Zinc	40300.00	14200.00	Yes	9.00	9.53	No	SUB-ZN-01	Y, SWA
SB-AOC10-2013-115	Surface	Chromium	10800.00	1540.00	Yes	5.00	7.92	No	SURF-CR-01	No
SB-AOC10-2013-115	Surface	Zinc	40700.00	14200.00	Yes	5.00	7.92	No	SURF-ZN-02	Yes, SWA
SB-AOC10-2013-116	Surface	Zinc	60700.00	14200.00	Yes	0.50	8.64	Yes	SURF-ZN-02	Y 95UCL
SB-AOC10-2013-117	Surface	Lead	378.00	328.00	Yes	4.50	8.04	No	Surf-PB-03	Yes, once others removed
SB-AOC10-2013-119	Surface	Chromium	4500.00	1540.00	Yes	4.50	7.30	Yes	SURF-CR-04	Y SWA
SB-AOC10-2013-119	Surface	Lead	1670.00	328.00	Yes	4.50	7.30	Yes	Surf-PB-03	No
SB-AOC10-2013-119	Surface	Nickel	13800.00	9200.00	Yes	4.50	7.30	Yes	SURF-NI-03	Y SWA
SB-AOC10-2013-119	Surface	Zinc	20700.00	14200.00	Yes	4.50	7.30	Yes	SURF-ZN-05	Y SWA
SB-AOC10-2013-122	Surface	Chromium	2040.00	1540.00	Yes	0.50	6.74	Yes	SURF-CR-04	Y SWA

TABLE 5
FUNCTIONAL AREA ANALYSIS
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)	Local Delineation Sufficient for FA Averaging	Functional Area (FA)	FA Averaging Result Below IGWSSSRS (Y/N and type)
SB-AOC10-2013-124	Surface	Chromium	2850.00	1540.00	Yes	4.00	7.29	Yes	SURF-CR-04	Y SWA
SB-AOC1C-2013-107	Surface	Trichloroethene	7.90	1.00	Yes	1.00	10.89	Yes	SURF-TCE-06	Y SWA
SB-AOC8B-2013-101	Surface	Lead	457.00	328.00	Yes	10.00	12.62	Yes	Surf-PB-01	Yes SWA
SB-AOC8B-2013-104	Subsurface	Benzene	1.30	1.00	Yes	10.00	10.20	Yes	SUB-BZ-02	Y SWA
SB-AOC8B-2013-104	Subsurface	Chlorobenzene	87.00	83.00	Yes	10.00	10.20	Yes	SUB-CB-01	Y SWA
SB-AOC8B-2013-104	Subsurface	Lead	366.00	328.00	Yes	10.00	10.20	Yes	SUB-PB-05	Yes once other locations are removed
SB-AOC8B-2013-104	Subsurface	Nickel	33900.00	9200.00	Yes	10.00	10.20	Yes	SUB-NI-01	Y Mean
SB-AOC8B-2013-104	Subsurface	Zinc	20100.00	14200.00	Yes	10.00	10.20	Yes	SUB-ZN-03	Y SWA
SB-AOC8B-2013-105	Subsurface	Arsenic	37.40	19.00	Yes	10.00	10.66	Yes	IGW01	Y SWA
SB-F10	Surface	Trichloroethene	31.00	1.00	Yes	2.00	13.05	Yes	SURF-TCE-10	No
TP7-4	Surface	Lead	441.00	328.00	Yes	0.50	15.68	Yes	Surf-PB-10	Yes SWA
TP9-2-202	Surface	Arsenic	43.40	19.00	Yes	3.00	13.23	Yes	Surf-AS-06	Yes, SWA
TP9-2-204	Surface	Trichloroethene	1.30	1.00	Yes	3.00	13.98	Yes	SURF-TCE-02	Y SWA
TP9-2-300	Surface	Arsenic	29.30	19.00	Yes	0.50	11.75	Yes		Yes, once others removed
TP9-2-304	Surface	Zinc	34200.00	14200.00	Yes	5.00	14.31	No	SURF-ZN-07	Y SWA
TP9-3	Surface	Benzene	1.70	1.00	Yes	1.00	13.86	Yes	SURF-BZ-04	Y SWA
TP9-3	Surface	Zinc	32000.00	14200.00	Yes	1.00	13.86	Yes	SURF-ZN-07	Y SWA
TP9-3-203	Surface	Arsenic	23.40	19.00	Yes	3.00	14.14	Yes	Surf-AS-09	Yes, once others removed
TP9-3-203	Surface	Chlorobenzene	130.00	83.00	Yes	3.00	14.14	Yes	SURF-CB-01	Y SWA
TP9-3-305	Surface	Arsenic	34.90	19.00	Yes	0.50	14.60	No	Surf-AS-09	Yes, SWA
TP9-3-305	Surface	Benzene	1.20	1.00	Yes	3.50	14.60	Yes	SURF-BZ-04	Y SWA
TP9-3-305	Surface	Zinc	15900.00	14200.00	Yes	3.50	14.60	No	SURF-ZN-07	Y SWA

TABLE 6
AREAS REQUIRING ADDITIONAL REMEDIAL ACTIVITIES
EWING TOWNSHIP INDUSTRIAL LAND
EWING TOWNSHIP, NEW JERSEY

Boring Location	Surface/ Subsurface	Constituent	Concentration (mg/kg)	IGWSSSRS (mg/kg)	Sample Exceeds IGWSSSRS	Sample Bottom Depth (ft bgs)	Depth To Water Table (ft bgs)	Local Delineation Sufficient for FA Averaging	Functional Area (FA)	FA Averaging Result Below IGWSSSRS (Y/N and type)	FA Theissen Polygon Area (sq ft)	Reference Area for Excavation (sqft)	Proposed Area for Excavation (sqft)	Proposed Excavation Depth	Proposed Volume for Excavation (CY)	Default Volume for Excavation (CY)	Upperbound Volume for Excavation (CY)	Group	Notes
109-1	Surface	Chromium	3840.00	1540.00	Yes	7.75	14.03	No				10,418.3	25	14.0	13	13	13	B	
268-1	Surface	Nickel	9940.00	9200.00	Yes	1.50	15.71	No				4,951.5	25	15.7	15	15	15	B	
B6-201	Surface	Arsenic	76.20	19.00	Yes	1.00	14.34	Yes	Surf-AS-15	No	2,739.2	2,739.2	25	10.0	9	9	1,015	B*	Changed to Default size due to large polygon
B8-4-100	Subsurface	Lead	1810.00	328.00	Yes	8.50	9.11	Yes	SUB-PB-03	No	665.3	665.0	665	9.1	224	8	224	A	
B8-6	Subsurface	Lead	1200.00	328.00	Yes	8.00	9.69	Yes	SUB-PB-07	No	1,870.3	1,870.0	1870	9.7	671	9	671	A	
B8-6-100	Subsurface	Lead	396.00	328.00	Yes	10.00	9.69	Yes	SUB-PB-07	No			0					A	Removed with B8-6
B8-6-103	Surface	Lead	7510.00	328.00	Yes	6.50	10.65	Yes	Surf-PB-05	No	786.7	787.0	787	10.6	310	10	310	A	
B8-8-2-102	Surface	Trichloroethene	13.00	1.00	Yes	10.00	13.02	Yes	SURF-TCE-04	No	1,168.4	1,168.4	1168	13.0	563	12	563	A	
B9-2-100	Surface	Arsenic	365.00	19.00	Yes	0.50	6.76	Yes	Surf-AS-11	No	34.4	34.4	34	3.0	4	3	3	B	
B9-2-101	Surface	Arsenic	356.00	19.00	Yes	0.50	6.21	Yes	Surf-AS-11	No	159.6	159.6	160	3.0	18	3	3	B	
B9-2-103	Surface	Arsenic	407.00	19.00	Yes	0.50	7.08	Yes	Surf-AS-11	No	122.9	122.9	123	3.0	14	3	3	B	
HSO17-A	Subsurface	Arsenic	122.00	19.00	Yes	0.50	2.32	No				6,003.7	25	2.3	2	2	2	B	
ISO6-102	Surface	Arsenic	62.80	19.00	Yes	1.50	14.97	Yes	Surf-AS-12	No	7,382.5	7,382.5	25	3.0	3	3	820	B*	Changed to Default size due to large polygon
ISO6-103	Surface	Arsenic	71.20	19.00	Yes	1.50	14.85	Yes	Surf-AS-12	No	1,266.5	1,266.5	25	3.0	3	3	141	B*	Changed to Default size due to large polygon
MW-22	Surface	Arsenic	91.00	19.00	Yes	4.00	14.03	No	Surf-AS-07	No		4,005.9	25	8.5	8	8	8	B	
PL05-02	Surface	Nickel	12500.00	9200.00	Yes	4.00	9.95	No				2,664.6	25	10.0	9	9	9	B	
SB-10-SO-209	Subsurface	Lead	769.00	328.00	Yes	10.00	10.57	No	SUB-PB-02	No			25	10.6	10	10	10	B	
SB-10-SO-7-103	Surface	Chromium	4500.00	1540.00	Yes	6.00	8.83	Yes	SURF-CR-01	No	222.1	222.1	222	8.8	73	8	73	A	
SB-10-SO-7-103	Surface	Nickel	11300.00	9200.00	Yes	6.00	8.83	No				222.1	25	8.8				B	Area removed during Chromium Excavation
SB-7-SO-7	Surface	Chromium	8100.00	1540.00	Yes	2.00	14.45	Yes	SURF-CR-05	No	3,015.6	3,015.6	3016	4.0	447	4	447	A	
SB-8-SO-11	Subsurface	Lead	4300.00	328.00	Yes	8.00	9.25	Yes	SUB-PB-05	No	2,772.4	2,772.4	25	9.3	9	9	950	B*	Changed to Default size due to large polygon
SB-8-SO-14-100	Surface	Lead	4770.00	328.00	Yes	8.25	13.16	Yes	Surf-PB-04	No	365.9	366.0	366	13.2	178	12	178	A	
SB-9-SO-4-A	Surface	Arsenic	241.00	19.00	Yes	0.50	9.63	Yes	Surf-AS-05	No	3,830.0	3,830.0	25	9.6	9	9	1,366	B*	Changed to Default size due to large polygon
SB-9-SO-8-A-EX1C	Surface	Arsenic	250.00	19.00	Yes	0.50	10.12	Yes	Surf-AS-13	No	1,617.3	1,617.3	1617	2.0	120	2	2	B	
SB-AOC09-2013-102	Surface	Arsenic	325.00	19.00	Yes	4.50	6.05	Yes	Surf-AS-11	No	695.2	695.2	695	4.5	116	4	4	B	
SB-AOC09-2013-104	Surface	Arsenic	135.00	19.00	Yes	4.50	3.03	Yes	Surf-AS-20	No	812.0	812.0	812	3.00	90	3	3	B	
SB-AOC09-2013-104-EX1A	Surface	Arsenic	220.00	19.00	Yes	2.00	3.03	Yes	Surf-AS-20	No	2,302.3	2,302.3	2302	3.0	258	3	3	B	
SB-AOC09-2013-105	Subsurface	Arsenic	61.10	19.00	Yes	4.50	2.35	No				4,517.8	25	2.4	2	2	2	B	
SB-AOC10-2013-106	Surface	Lead	1400.00	328.00	Yes	5.50	8.24	Yes	Surf-PB-02	No	1,633.3	1,633.0	25	8.2	8	8	499	B*	Changed to Default size due to large polygon
SB-AOC10-2013-109	Subsurface	Lead	385.00	328.00	Yes	9.00	9.53	No					25	9.5	9	9	9	B	
SB-AOC10-2013-115	Surface	Chromium	10800.00	1540.00	Yes	5.00	7.92	No	SURF-CR-01	No	2,498.9	2,498.9	25	7.9	7	7	733	B*	Changed to Default size due to large polygon
SB-AOC10-2013-115	Surface	Nickel	24800.00	9200.00	Yes	5.00	7.92	No				2,498.9	25	7.9				B*	Area removed during Chromium Excavation.
SB-F10	Surface	Trichloroethene	31.00	1.00	Yes	2.00	13.05	Yes	SURF-TCE-10	No	553.7	553.7	554	13.1	268	12	268	A	
SR-1	Surface	Chromium	5900.00	1540.00	Yes	1.00	16.11	No				12,344.6	25	16.1	15	15	15	B	

Arsenic Historic Pesticide Figure

PKWY-01
PKWY-02-A
XSO2-A
PKWY-08-A
GSO26BD
PL-10-15
GRB2-1
FSO3
B3-16-A
FSO5-A
SB9-SO-5-A
SB-9-SO-5
SB-10-SO-1
TP9-3-203
TP9-2-300
TP9-2-202
TP9-3-305
SB-9-SO-4-A
B9-9-A
SB-9-SO-3-A
HSO14-A
FSO29
FSO27-A
B6-201
B6-3-A
B9-12-101
B9-12
B9-12-103
SB-9-SO-11-A
B9-12-102
B9-13-A
SB-9-SO-2-A
B9-15-A
B9-14
MOA-C-B13
B9-16-101
B9-16-100
B9-16-102
MOA-C-B8-103
MOA-C-B8-100
B7-5-A
ISO11
CE-1-101
CE-1-102
B8-5
ISO6-102
ISO5-102
SB-7-SO-3
ISO6-100
ISO5-101
B7-1
ISO6-103
SB-7-SO-6
ISO7-103
B7-2-EX1B
B7-2-EX1C
MW-22
B7-2
B10-3

LEGEND

MAXIMUM ARSENIC CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS Or Addressed In Previous Step
- Location Greater Than IGWSSSRS
- Location Determined To Be Caused By Historic Pesticides
- Site Boundary

NOTES

1. SURFACE ZONE: SURFACE TO 2 FEET ABOVE WATER TABLE

2. DUE TO THE DENSITY OF SAMPLING LOCATIONS IN SOME AREAS, NOT ALL SAMPLING LOCATION LABELS ARE SHOWN ON THIS FIGURE.

N

0 200 400
SCALE IN FEET

HALEY ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

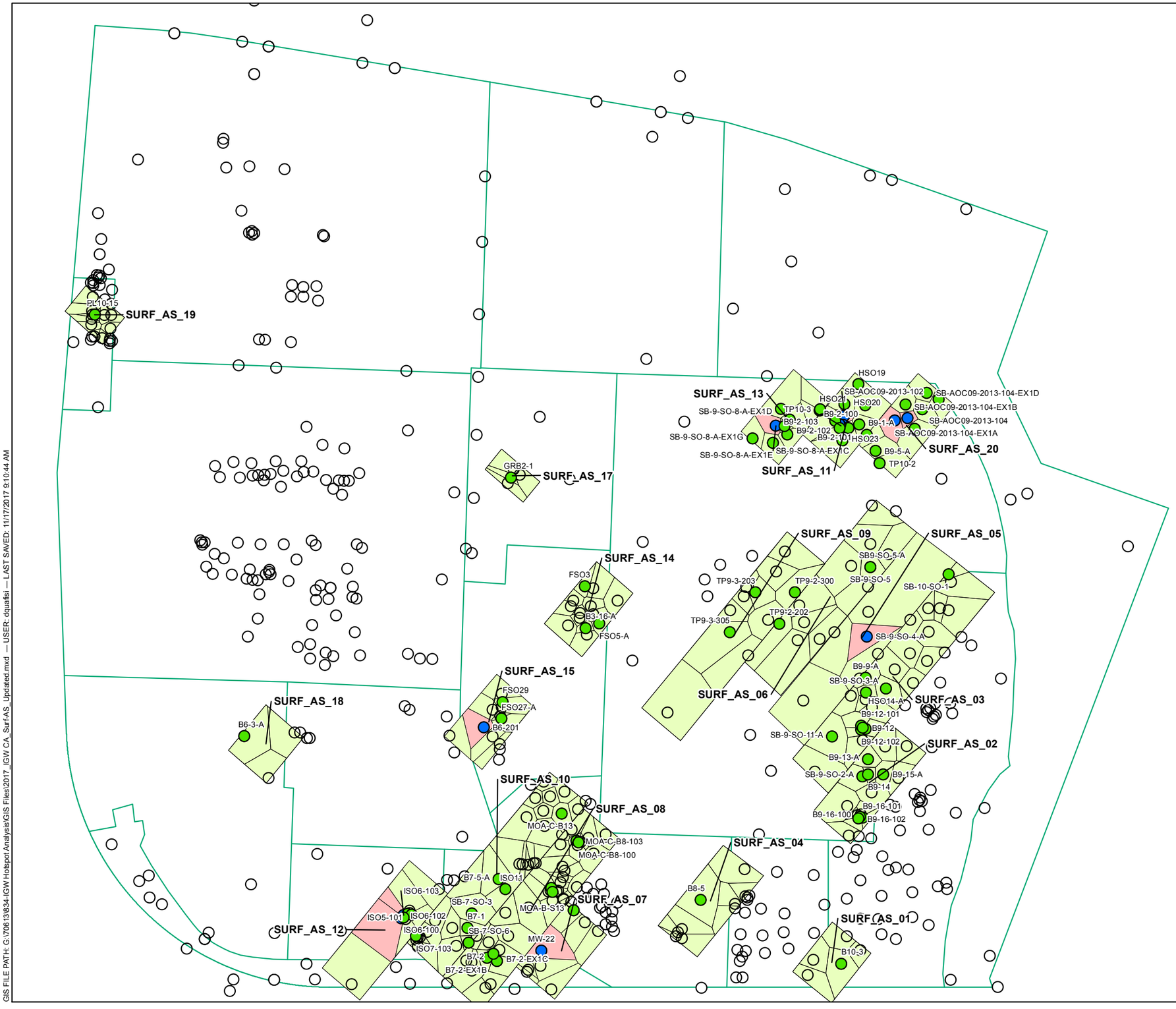
IMPACT TO GROUNDWATER EVALUATION HISTORIC PESTICIDES

NOVEMBER 2017

FIGURE C-1

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IGW Spatially Weighted Average



LEGEND

MAXIMUM ARSENIC CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS Or Addressed In Previous Step
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SURFACE ZONE: SURFACE TO 2 FEET ABOVE WATER TABLE

2. DUE TO THE DENSITY OF SAMPLING LOCATIONS IN SOME AREAS, NOT ALL SAMPLING LOCATION LABELS ARE SHOWN ON THIS FIGURE.

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

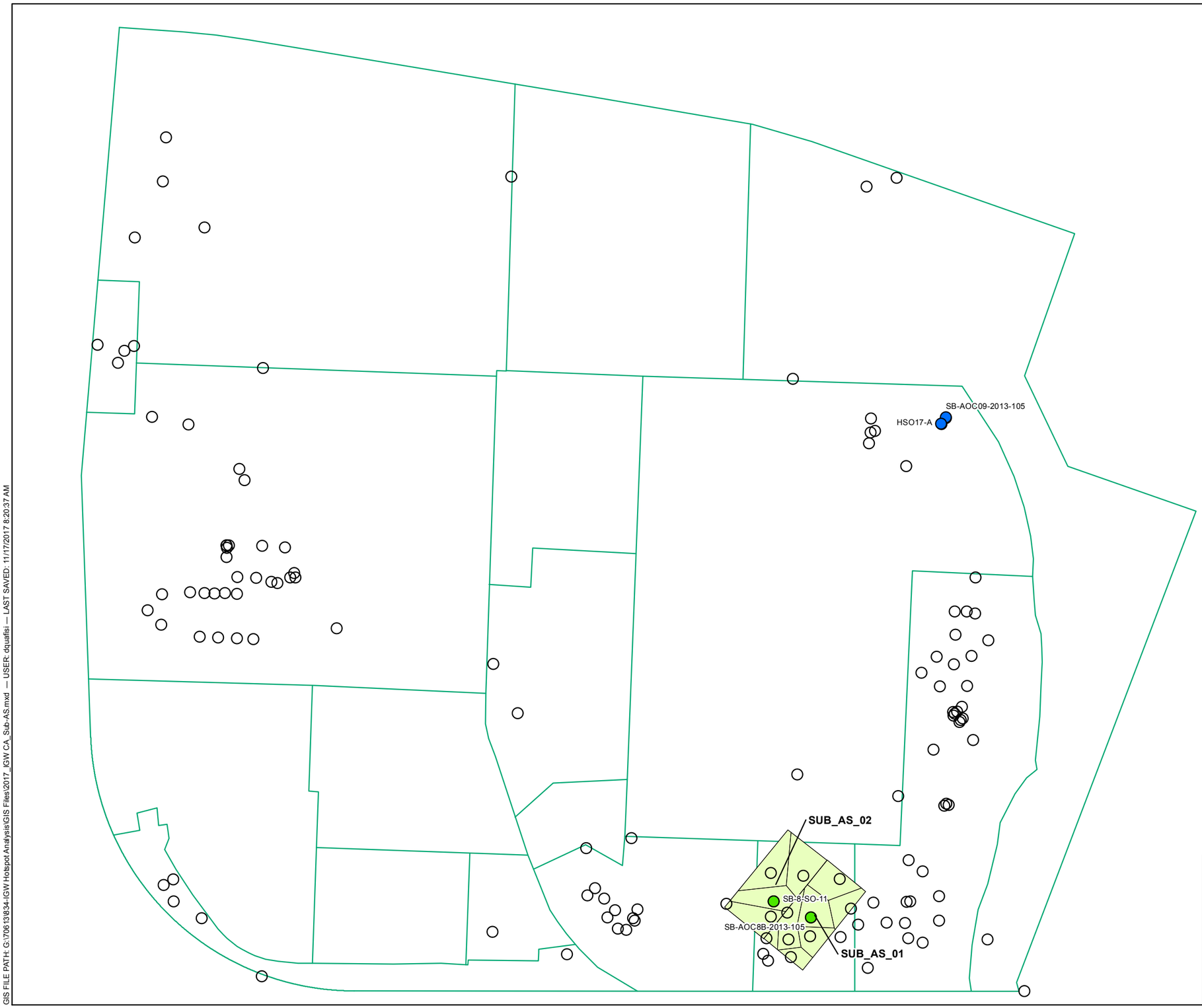
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EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION ARSENIC - SURFACE

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FIGURE E-1

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LEGEND

MAXIMUM ARSENIC CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SUBSURFACE ZONE: 2 FEET ABOVE WATER TABLE TO WATER TABLE

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

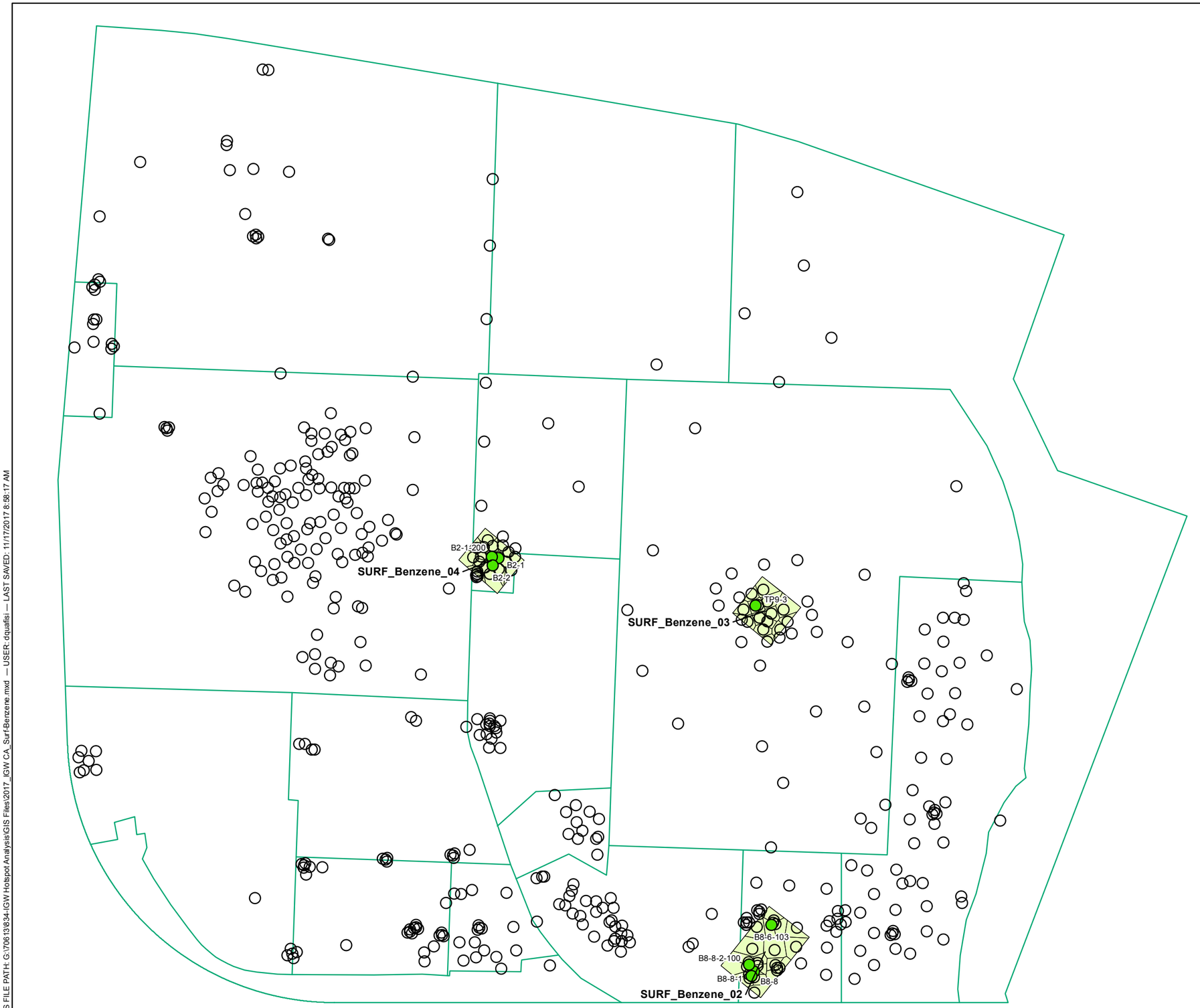
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IMPACT TO GROUNDWATER EVALUATION ARSENIC - SUBSURFACE

NOVEMBER 2017

FIGURE E-2

GIS FILE PATH: G:\706113\834-IGW Hotspot Analysis\GIS Files\2017_IGW CA_Sub-AS.mxd — USER: dquafisi — LAST SAVED: 11/17/2017 8:20:37 AM



LEGEND

MAXIMUM BENZENE CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SURFACE ZONE: SURFACE TO 2 FEET ABOVE WATER TABLE

2. DUE TO THE DENSITY OF SAMPLING LOCATIONS IN SOME AREAS, NOT ALL SAMPLING LOCATION LABELS ARE SHOWN ON THIS FIGURE.

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION BENZENE - SURFACE

NOVEMBER 2017

FIGURE E-3

GIS FILE PATH: G:\706113\834-IGW Hotspot Analysis\GIS Files\2017_IGW CA_Surf-Benzene.mxd — USER: dquafisi — LAST SAVED: 11/17/2017 8:58:17 AM



LEGEND

MAXIMUM BENZENE CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SUBSURFACE ZONE: 2 FEET ABOVE WATER TABLE TO WATER TABLE

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

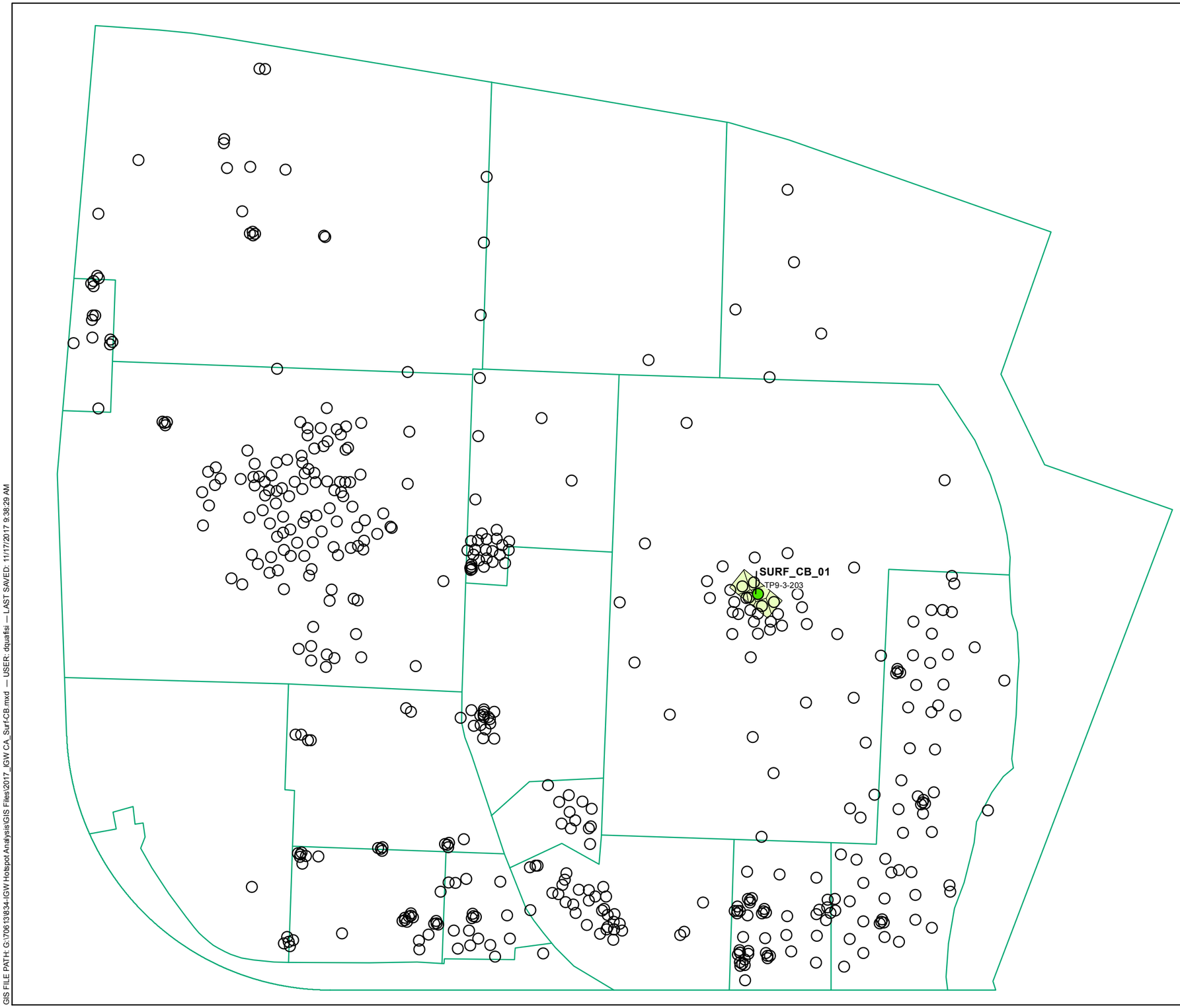
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EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION BENZENE - SUBSURFACE

NOVEMBER 2017

FIGURE E-4

GIS FILE PATH: G:\706139834-IGW Hotspot Analysis\GIS Files\2017_IGW CA_Sub-Benzene.mxd — USER: dquafisi — LAST SAVED: 11/17/2017 9:47:53 AM



LEGEND

MAXIMUM CHLOROBENZENE CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SURFACE ZONE: SURFACE TO 2 FEET ABOVE WATER TABLE

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION CHLOROBENZENE - SURFACE

NOVEMBER 2017

FIGURE E-5

GIS FILE PATH: G:\706131834-IGW Hotspot Analysis\GIS Files\2017_IGW CA_SurfCB.mxd — USER: dquatlsi — LAST SAVED: 11/17/2017 9:38:29 AM



LEGEND

MAXIMUM CHLOROBENZENE CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SUBSURFACE ZONE: 2 FEET ABOVE WATER TABLE TO WATER TABLE

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

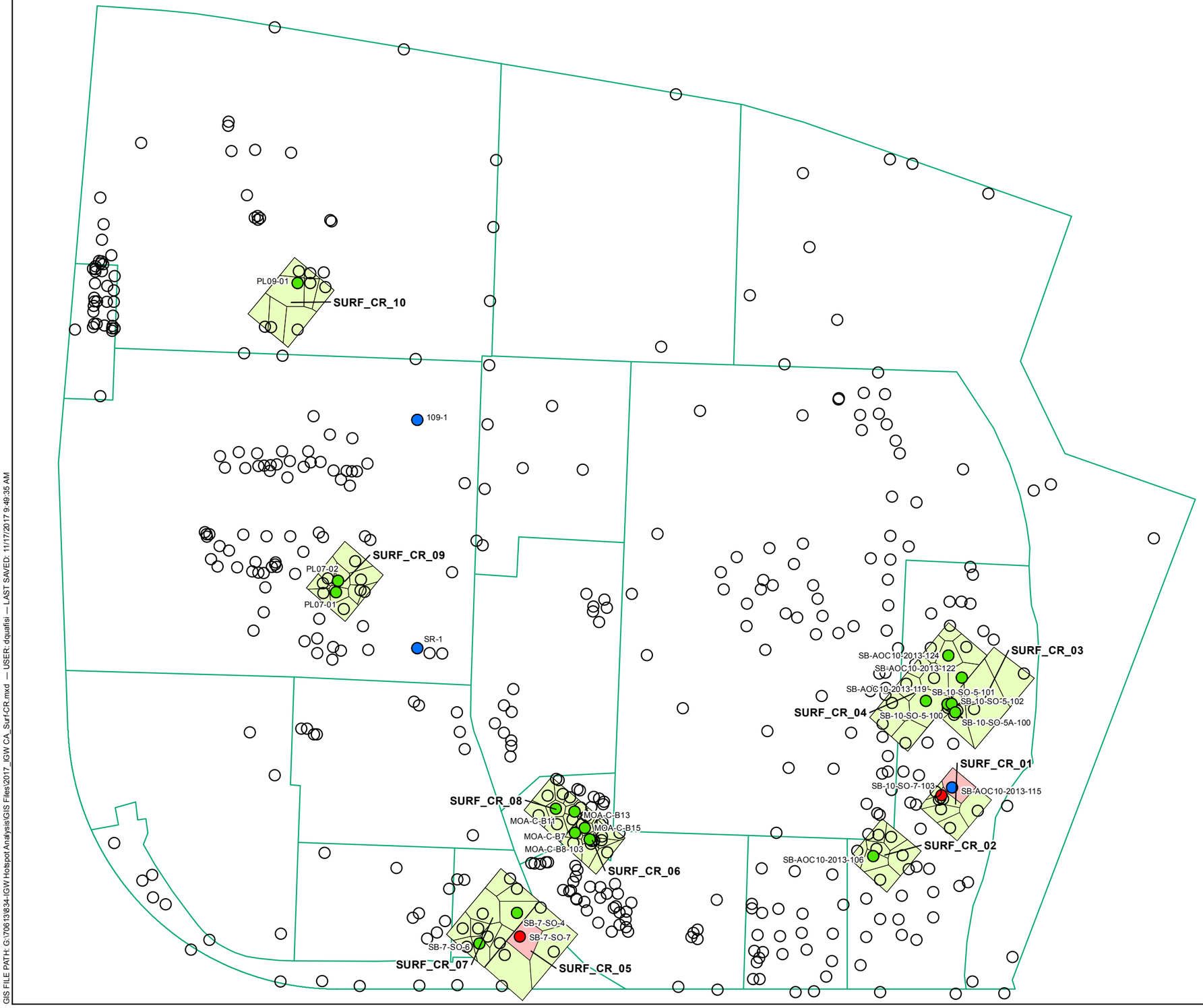
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EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION CHLOROBENZENE - SUBSURFACE

NOVEMBER 2017

FIGURE E-6

GIS FILE PATH: G:\706139834-IGW Hotspot Analysis\GIS Files\2017_IGW CA_Sub-CB.mxd — USER: dquatrisi — LAST SAVED: 11/17/2017 8:45:52 AM



LEGEND

MAXIMUM CHROMIUM CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SURFACE ZONE: SURFACE TO 2 FEET ABOVE WATER TABLE

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION CHROMIUM - SURFACE

NOVEMBER 2017

FIGURE E-7

GIS FILE PATH: G:\106138\34-IGW Hotspot Analysis\GIS Files\2017_IGW CA_Surf-CR.mxd — USER: dquafisi — LAST SAVED: 11/17/2017 9:49:35 AM



LEGEND

MAXIMUM CHROMIUM CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SUBSURFACE ZONE: 2 FEET ABOVE WATER TABLE TO WATER TABLE

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

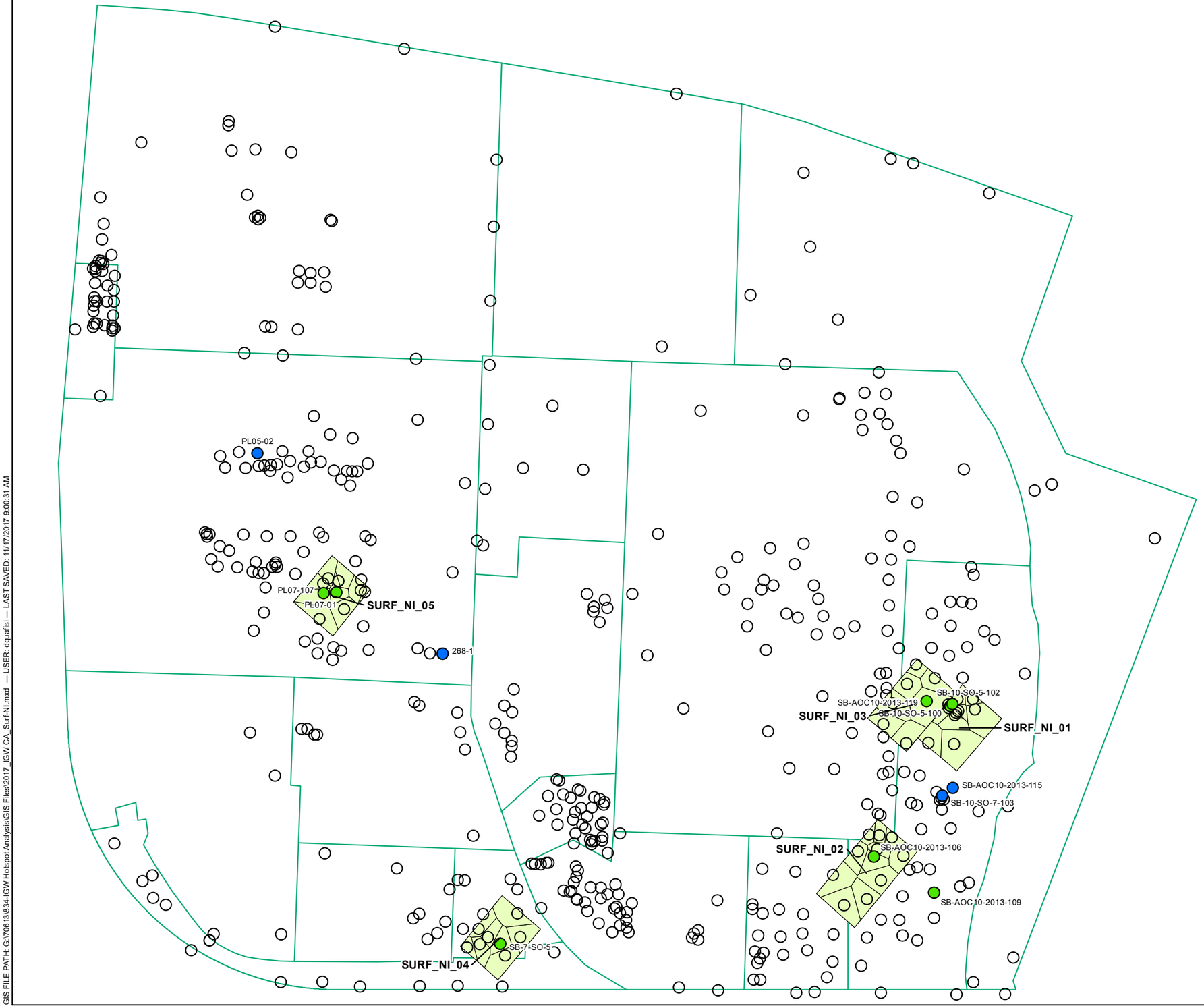
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EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION CHROMIUM - SUBSURFACE

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FIGURE E-8

GIS FILE PATH: G:\706131834-IGW Hotspot Analysis\GIS Files\2017_IGW CA_Sub-CR.mxd — USER: dquafisi — LAST SAVED: 11/17/2017 8:46:23 AM



LEGEND

MAXIMUM NICKEL CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SURFACE ZONE: SURFACE TO 2 FEET ABOVE WATER TABLE

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION NICKEL - SURFACE

NOVEMBER 2017

FIGURE E-9

GIS FILE PATH: G:\706193834-IGW Hotspot Analysis\GIS Files\2017_IGW CA_Surf-NI.mxd — USER: dquafisi — LAST SAVED: 11/17/2017 9:00:31 AM



LEGEND

MAXIMUM NICKEL CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SUBSURFACE ZONE: 2 FEET ABOVE WATER TABLE TO WATER TABLE

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

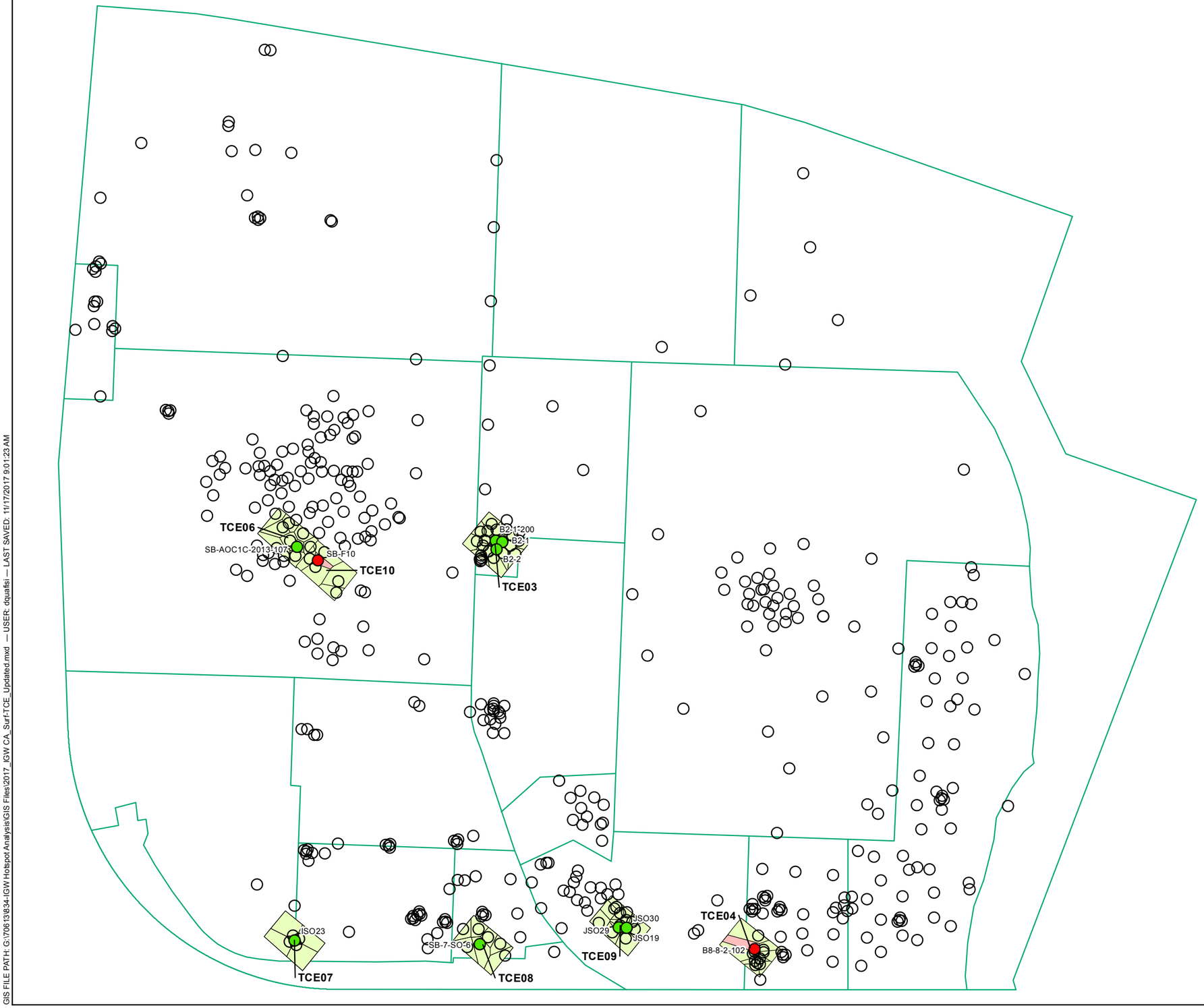
RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION NICKEL - SUBSURFACE

NOVEMBER 2017

FIGURE E-10

GIS FILE PATH: G:\706138\34-IGW Hotspot Analysis\GIS Files\2017_IGW CA_Sub-Ni.mxd — USER: dquafisi — LAST SAVED: 11/17/2017 8:47:04 AM



LEGEND

MAXIMUM TRICHLOROETHENE CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SURFACE ZONE: SURFACE TO 2 FEET ABOVE WATER TABLE

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION TRICHLOROETHENE - SURFACE

NOVEMBER 2017

FIGURE E-11

GIS FILE PATH: G:\706193834-IGW Hotspot Analysis\GIS Files\2017_IGW CA_Surf-TCE_Updated.mxd — USER: dquaifsl — LAST SAVED: 11/17/2017 9:01:23 AM

LEGEND

MAXIMUM TRICHLOROETHENE CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SUBSURFACE ZONE: 2 FEET ABOVE WATER TABLE TO WATER TABLE

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION TRICHLOROETHENE - SUBSURFACE

NOVEMBER 2017

FIGURE E-12

GIS FILE PATH: G:\706139834-IGW Hotspot Analysis\GIS Files\2017_IGW CA_Sub-TCE.mxd — USER: dquallisi — LAST SAVED: 11/17/2017 8:55:22 AM



LEGEND

MAXIMUM VINYL CHLORIDE CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SURFACE ZONE: SURFACE TO 2 FEET ABOVE WATER TABLE

N

0 200 400
SCALE IN FEET

HALEY ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION
VINYL CHLORIDE - SURFACE

NOVEMBER 2017

FIGURE E-13

GIS FILE PATH: G:\706131834-IGW Hotspot Analysis\GIS Files\2017_IGW CA_SurfVC.mxd — USER: dquafisi — LAST SAVED: 11/17/2017 9:02:11 AM

LEGEND

MAXIMUM VINYL CHLORIDE CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SUBSURFACE ZONE: 2 FEET ABOVE WATER TABLE TO WATER TABLE

0 200 400

SCALE IN FEET

HALEY ALDRICH

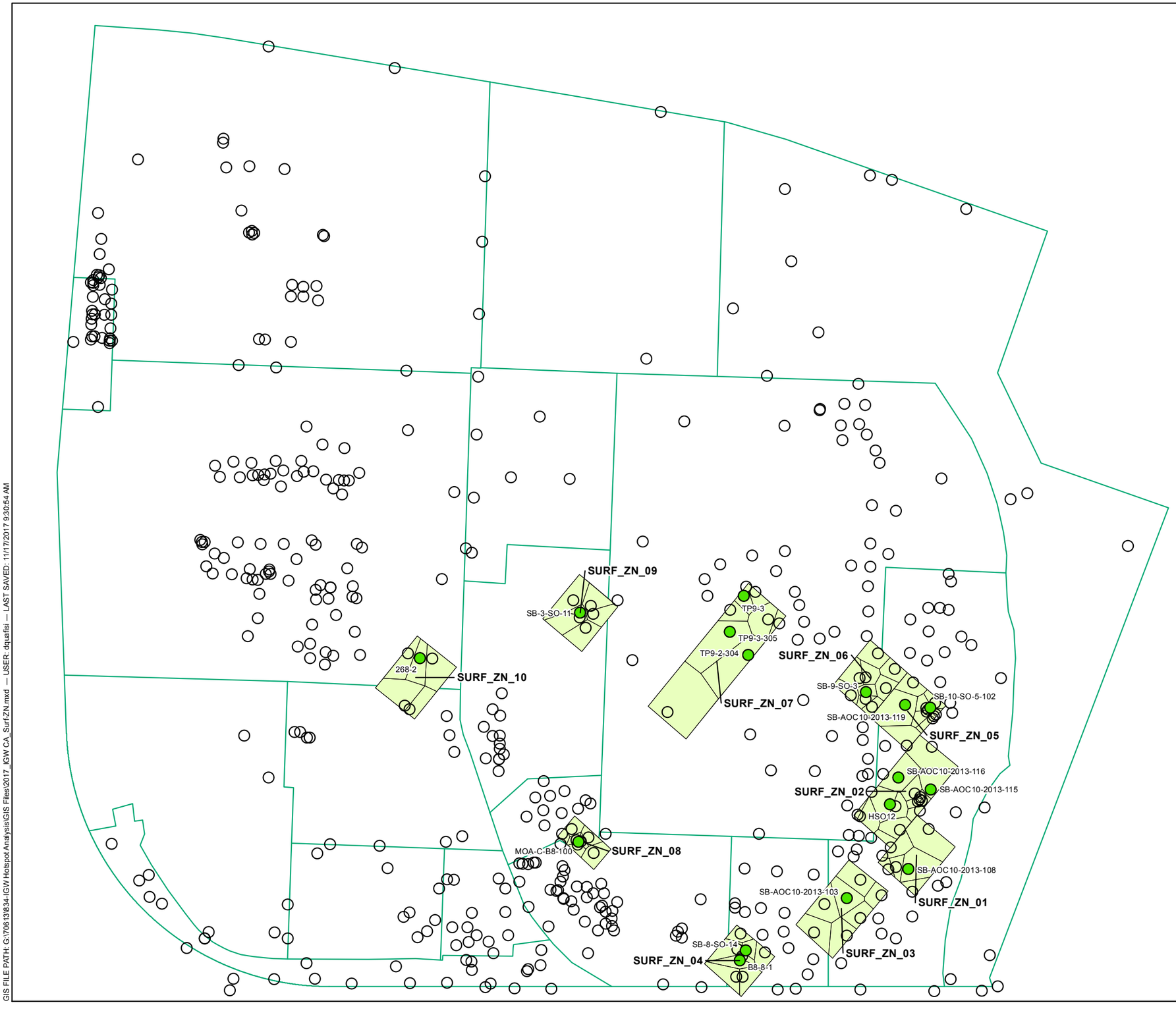
RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION
VINYL CHLORIDE - SUBSURFACE

NOVEMBER 2017

FIGURE E-14

GIS FILE PATH: G:\706139834-IGW Hotspot Analysis\GIS Files\2017_IGW CA_Sub-VC.mxd — USER: dquatisi — LAST SAVED: 11/17/2017 9:52:53 AM



LEGEND

MAXIMUM ZINC CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SURFACE ZONE: SURFACE TO 2 FEET ABOVE WATER TABLE

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

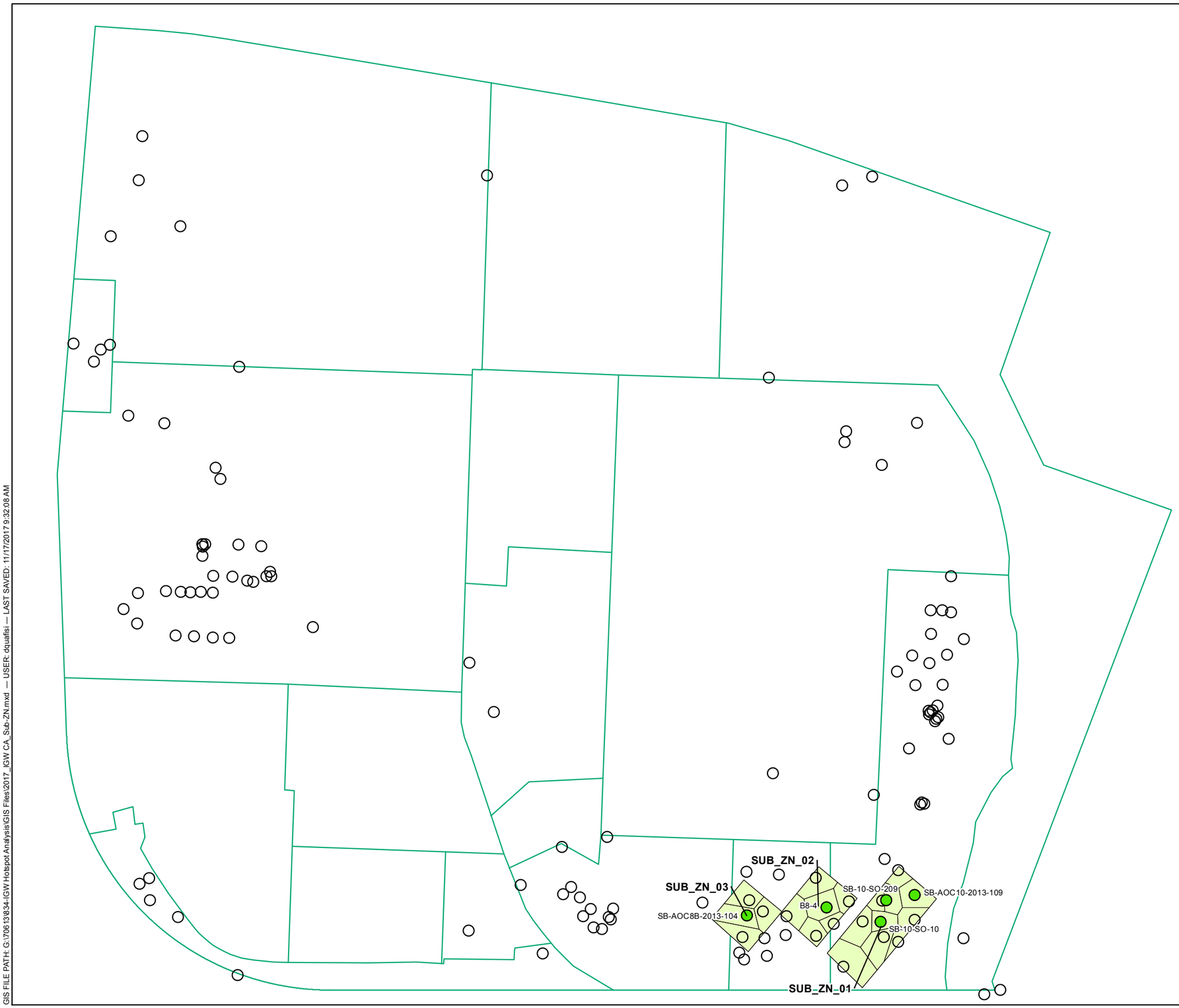
RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION ZINC - SURFACE

NOVEMBER 2017

FIGURE E-15

GIS FILE PATH: G:\70613\834-IGW Hotspot Analysis\GIS Files\2017_IGW CA_SurfZN.mxd — USER: dquatfisi — LAST SAVED: 11/17/2017 9:30:54 AM



LEGEND

MAXIMUM ZINC CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SUBSURFACE ZONE: 2 FEET ABOVE WATER TABLE TO WATER TABLE

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

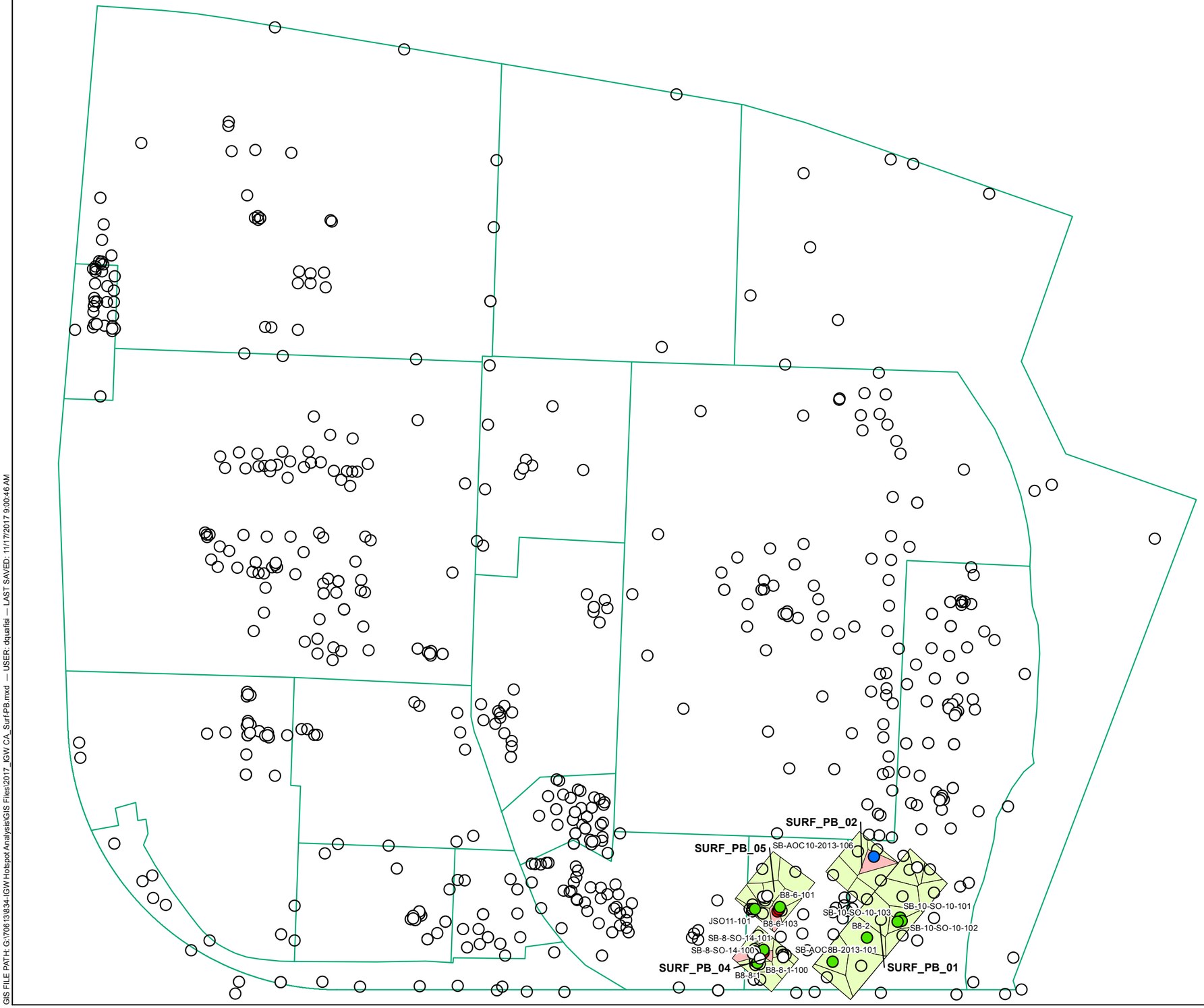
RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION ZINC - SUBSURFACE

NOVEMBER 2017

FIGURE E-16

GIS FILE PATH: G:\706113\834-IGW Hotspot Analysis\GIS Files\2017_IGW CA_Sub-ZN.mxd — USER: dquafisi — LAST SAVED: 11/17/2017 9:32:08 AM



LEGEND

MAXIMUM LEAD CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS Or Addressed In Previous Step
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SURFACE ZONE: GROUND SURFACE TO 2 FEET ABOVE WATER TABLE

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION LEAD - SURFACE

NOVEMBER 2017

FIGURE E-17

GIS FILE PATH: G:\706134\34-IGW Hotspot Analysis\GIS Files\2017_IGW CA_Surf-PB.mxd — USER: dquatfisi — LAST SAVED: 11/17/2017 9:00:46 AM

LEGEND

MAXIMUM LEAD CONCENTRATIONS

- Location Concentration Less Than IGWSSSRS Or Addressed In Previous Step
- Location Requires Remedial Action
- Location Does Not Cause Average To Exceed IGWSSSRS
- Location Requires Delineation or Remedial Action

FUNCTIONAL AREA ANALYSIS

- Average Does Not Exceed IGWSSSRS
- Average Exceeds IGWSSSRS
- Site Boundary

NOTES

1. SUBSURFACE ZONE: 2 FEET ABOVE WATER TABLE TO WATER TABLE

SB-10-SO-2
SUB_PB_06
SUB_PB_02
SB-10-SO-5
SB-10-SO-5A-100
SUB_PB_05
SB-8-SO-11
JSO11-101
SB-AOC8B-2013-104
B8-6
SB-8-SO-14-101
SUB_PB_04
SB-10-SO-209
SB-AOC10-2013-109
B8-4-102
B8-4-101
B8-4-100
B8-4
SB-10-SO-10-101
SB-10-SO-10-100
SB-10-SO-10-103
SUB_PB_03
SUB_PB_01
SUB_PB_07

0 200 400
SCALE IN FEET

HALEY ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

IMPACT TO GROUNDWATER EVALUATION LEAD - SUBSURFACE

NOVEMBER 2017

FIGURE E-18

GIS FILE PATH: G:\70613\834-IGW Hotspot Analysis\GIS Files\2017_IGW CA_Sub-PB.mxd — USER: dqualfisi — LAST SAVED: 11/17/2017 9:33:06 AM

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	B10-3	1	406526.65	520111.54	25	4030.05	100751.28
2	B8-2	2	406554.28	520160.57	12	2184.02	26208.20
3	MW-62	2	406571.65	520125.22	11.8	1317.40	15545.28
4	SB-AOC8B-2013-101	3	406475.43	520136.97	6.9	2451.10	16912.61
5	JSO22	1	406455.20	520111.31	2.7	2759.39	7450.35
SUM						**12741.96**	**166867.71**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**13.1**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-02							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	B9-14	1	406696.76	520455.78	90	682.9597078	61466.37
2	B9-16-102	3	406650.907	520377.816	51.5	608.3217289	31328.57
3	B9-15-A	1	406726.16	520446.62	50.1	1559.061975	78109.00
4	B9-16-100	3	406655.62	520380.44	48.9	29.54536053	1444.77
5	B9-16-101	3	406659.641	520376.769	47.5	557.5443369	26483.36
6	SB-9-SO-2-A	1	406685.41	520455.74	44.7	2014.050198	90028.04
7	B9-13-A	1	406707.04	520484.77	25.9	1539.328724	39868.61
8	HSO13-A	1	406747.208	520498.418	18.4	2818.029928	51851.75
9	B10-1	1	406637.43	520408.54	12	4524.984694	54299.82
10	SB-10-SO-6-A	1	406693.07	520419.39	10.6	2329.472169	24692.40
11	B9-16-103	3	406658.412	520384.576	10.1	672.5088095	6792.34
12		2	406752.9854	520429.6417	9.1	1770.057914	16107.53
13	B9-16-200	2	406651.7547	520384.5066	8.8	331.3766048	2916.11
14	MW-63	2	406717.94	520130.30	8.3	139830.00	1160589.03
15	SB-9-SO-1	1	406621.95	520351	5.2	1469.460525	7641.19
16	SB-AOC10-2013-117	2	406788.8779	520485.7086	3.4	2542.280022	8643.75
SUM						**2542.28**	**8643.75**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**3.4**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-03							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	SB-9-SO-3-A	3	406745.21	520613.8	133	779.5496672	103680.11
2	B9-9-A	1	406753.80	520642.23	84.6	1201.89	101679.85
3	B9-12	1	406716.99	520548.64	69	52.4329421	3617.87
4	B9-12-101	2	406715.181	520553.571	55	1347.287986	74100.84
5	B9-12-103	2	406721.111	520544.612	42	1002.768409	42116.27
6	HSO14-A	1	406785.733	520608.363	38.2	2552.96886	97523.41
7	B9-12-102	2	406712.377	520545.659	23.9	600.9069604	14361.68
8	SB-9-SO-11-A	2	406652.62	520550.87	20.2	5160.533737	104242.78
9	SB-10-SO-1	1	406977.65	520786.54	20	820.256604	16405.13
10	B9-11	1	406747.04	520581.55	16	2146.36	34341.75
11	SB-10-SO-3	3	406814.65	520639.54	15	2788.617696	41829.27
12		2	406917.01	520735.20	14.6	1348.27	19684.70
13	SB-AOC10-2013-128	2	406903.45	520689.99	13.7	3317.50	45449.77
14	B9-10	1	406739.86	520600.82	13	716.38	9312.96
15	B10-4	1	406713.79	520616.71	12	1695.961044	20351.53
16	B10-2	1	406708.86	520523.83	12	2071.596415	24859.16
17	GRB9-1	1	406741.64	520644.34	12	270.81	3249.68
18	SB-9-SO-10	1	406597.62	520494.87	11	5077.167197	55848.84
19	SB-AOC10-2013-124	2	406881.99	520635.22	6.1	2142.60	13069.86
20	SB-10-SO-2	3	406939.65	520727.54	5.5	1226.63	6746.47
21	SB-AOC10-2013-129	2	406954.5211	520718.0068	4.6	4433.297074	20393.17
22	SB-AOC10-2013-125	2	406853.93	520660.55	4.6	2917.91	13422.40
23	SB-AOC10-2013-121	2	406840.91	520601.89	4.1	1798.23	7372.75
24	SB-AOC10-2013-126	3	406875.67	520724.02	3.9	1453.25	5667.69
25	WSO9	1	406977.65	520771.10	3	4090.37	12271.12
SUM						**51013.55**	**891599.05**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**17.5**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-04							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	B8-5	1	406298.36	520322.61	30	6158.48	184754.46
2	JSO7	1	406244.55	520278.43	11.8	2888.38	34082.94
3	SB-8-SO-11-102	3	406385.90	520300.92	10.9	1158.70	12629.82
4	SB-8-SO-16-A	1	406238.65	520260.54	8.2	2018.09	16548.36
5	JSO11	1	406358.48	520284.97	7.2	1458.53	10501.45
6	SB-AOC8B-2013-106	2	406401.68	520353.45	6.8	4758.59	32358.42
7	SB-8-SO-15-A	1	406228.65	520268.54	5.9	293.66	1732.62
8	JSO12	1	406361.48	520293.37	5.4	1600.15	8640.80
9	JSO8	1	406234.66	520274.94	3.9	851.73	3321.73
SUM						**21186.32**	**304570.60**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**14.4**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-05							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	SB-9-SO-4-A	1	406781.74	520720.14	241	3829.99	923028.72
2	B9-8	1	406800.65	520765.77	19	19795.48	376114.11
3	B10-6	2	406792.04	520679.76	17	4074.52	69266.80
4	HSO9	1	406620.28	520638.24	6.9	13992.20	96546.15
5	HSO8	1	406722.82	520748.26	1.4	4970.04	6958.05
SUM						**46662.23**	**1471913.84**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**31.5**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-06							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	SB-9-SO-5	1	406832.48	520850.34	48	1776.811697	85286.96
2	TP9-2-202	2	406622.89	520799.50	43.4	3693.13	160281.86
3	SB-9-SO-6-A	1	406874.54	520966.61	17.4	2510.82	43688.20
4	TP9-2-303	3	406648.0319	520756.2876	16.4	8202.84	134526.59
5	B9-7	1	406816.15	520814.34	12	3262.36	39148.34
6	B9-6-A	1	406847.16	520894.44	11.4	4111.19	46867.57
7	TP9-2-301	3	406672.72	520821.61	9.5	4194.03	39843.24
8	TP10-1-A	1	406874.93	520863.18	9.3	3670.89	34139.25
9	TP9-2-302	3	406671.18	520786.55	8.1	2556.60	20708.49
10	SB-9-SO-12	1	406690.57	520745.00	7.3	3208.86	23424.66
11	HSO7	1	406797.02	520864.61	4.8	5890.93	28276.47
SUM						**43078.46**	**656191.65**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**15.2**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-07							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	MW-22	2	405962.35	520326.62	91	4005.91	364537.37
2	ISO37	2	405951.17	520297.79	18.7	2402.70	44930.52
3	MOA-B-S13	1	406049.53	520383.18	15.6	1827.38	28507.19
4	ISO38	1	405956.83	520245.86	11.9	2549.27	30336.32
5	ISO36	1	405921.22	520295.29	7.9	464.81	3671.98
6	ISO35	1	405925.12	520297.95	7.9	776.88	6137.34
7	MOA-B-S12	1	406063.05	520353.33	4.7	2426.97	11406.75
8	MOA-B-S11	1	406083.08	520327.54	4.3	2358.59	10141.95
SUM						**16812.51**	**499669.41**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**29.7**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-08							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	B7-2	3	405868.66	520350.08	180	302.26	54407.12
2	CE-1-102	4	406020.67	520431.25	163	104.62	17053.12
3	B7-2-EX1B	2	405854.09	520347.13	28	886.61	24825.10
4	MOA-C-B8-100	3	406101.84	520509.10	26.8	36.76	985.07
5	CE-1-101	4	406020.92	520439.51	22.5	1187.29	26713.95
6	B7-2-EX1C	2	405871.18	520334.77	20	1735.05	34701.04
7	MOA-C-B8-103	3	406098.88	520513.28	19.8	371.10	7347.69
8	B7-2-EX1A	2	405882.76	520354.43	19	1227.84	23328.92
9	MOA-C-B15	3	406096.71	520538.05	17.1	1325.28	22662.22
10	ISO16	1	405844.10	520294.14	16.8	1276.67	21447.98
11	JSO17	1	406032.25	520429.63	15.5	261.56	4054.22
12	CE-1-103	4	406012.96	520434.42	14	1470.10	20581.33
13	MOA-C-B7	3	406075.34	520534.67	12.2	275.46	3360.56
14	B7-6	2	405965.06	520416.27	12	4334.72	52016.63
15	MOA-C-B8-102	3	406098.41	520504.42	11.7	828.59	9694.47
16	CE-1-100	4	406018.01	520435.51	11.4	35.17	400.98
17	MOA-B-S14-A	1	406037.36	520409.96	11.2	374.54	4194.81
18	ISO32	1	405812.95	520354.55	11	1374.61	15120.71
19	JSO18	1	406037.11	520411.30	10.2	285.83	2915.51
20	ZSO6	5	406066.22	520516.66	9.8	1246.02	12210.96
21	ISO42	1	405832.01	520290.47	9.3	2157.32	20063.10
22	MOA-C-B8-101	3	406106.72	520508.52	9.2	289.15	2660.15
23	SB-7-SO-7	5	405908.28	520375.18	8.9	3521.33	31339.83
24	SB-7-SO-4	5	405917.72	520420.99	8.2	2184.28	17911.07
25	ISO34	1	405817.03	520331.61	7.9	2303.14	18194.82
26	ISO33	1	405821.62	520348.26	7.6	591.81	4497.76
27	MOA-B-S15	1	406028.52	520429.37	7.2	115.75	833.44
28	CE-1-102-EX1A	2	406015.06	520414.17	6.9	1571.91	10846.16
29	ZSO5	3	406158.52	520507.61	6.3	1571.83	9902.50
30	CE-2	2	406057.06	520463.79	6.3	783.42	4935.52
31	TP7-4	2	405848.11	520395.31	6	788.80	4732.77
32	MOA-B-S16	1	406049.65	520453.33	5.5	516.88	2842.86
33	MOA-C-B9	3	406123.03	520478.14	4.7	2046.79	9619.93
34	SB-7-SO-5	4	405866.65	520375.54	4.4	1181.64	5199.22
35	MOA-C-B10-A	1	406123.53	520511.34	3.9	1342.44	5235.50
36	MOA-B-S17	1	406070.05	520425.07	3.3	1126.48	3717.39
37	JSO16	1	406055.85	520472.69	2.5	1928.88	4822.21
38	MOA-B-S10	1	406041.92	520444.72	1.6	485.54	776.87
SUM						**43447.44**	**516153.46**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**11.9**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-09							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	TP9-3-305	3	406523.64	520814.62	34.9	7683.96	268170.14
2	TP9-2-300	3	406672.80	520849.35	29.3	3573.54	104704.86
3	TP9-3-203	2	406597.46	520874.40	23.4	2145.51	50204.86
4	TP9-2	2	406603.86	520814.04	16	3492.56	55881.02
5	TP9-3	2	406572.39	520874.38	14	1221.81	17105.33
6	TP9-2-304	3	406543.3684	520758.7496	13.7	5366.51	73521.13
7	SB-9-SO-9	1	406583.21	520890.16	11	763.25	8395.77
8	HSO5	1	406538.179	520856.579	9.4	1852.96	17417.83
9	TP9-2-311	3	406650.00	520901.00	8.4	3203.75	26911.49
10	HSO3	1	406353.39	520701.02	8.1	12683.61	102737.25
11	HSO6	1	406679.42	520933.97	5.6	4232.13	23699.91
SUM						**46219.59**	**748749.60**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**16.2**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-10							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	ISO7-103	2	405732.0502	520433.537	44.5	161.48	7186.01
2	B7-5-A	1	405925.66	520489.91	29.6	3670.33	108641.88
3	SB-7-SO-6	4	405828.35	520387.7	25	530.91	13272.85
4	MOA-C-B13	3	406087.44	520575.16	24.8	1665.42	41302.43
5	SB-7-SO-3	5	405852.72	520440.99	22	3961.98	87163.55
6	B7-1	1	405835.34	520416.27	22	1223.44	26915.65
7	ISO11	2	405932.805	520465.898	20.2	2162.22	43676.94
8	ISO7-101	2	405739.00	520429.20	19.3	303.36	5854.81
9	ISO7-102	2	405730.46	520425.41	18.7	253.68	4743.83
10	MOA-C-B3	3	406073.52	520647.18	18.1	870.31	15752.70
11	MOA-C-B11	3	406054.26	520592.05	17.3	1003.71	17364.20
12		3	406106.66	520614.79	14.9	1227.73	18293.17
13	JSO5	1	405991.14	520498.86	14.6	476.50	6956.95
14	MOA-C-B14	3	406121.5009	520572.6826	13.2	1041.78	13751.56
15	B7-3	3	405778.17	520450.87	13	1879.06	24427.72
16	MW-77	2	405729.26	520411.58	12.9	1568.43	20232.78
17	B8-9	2	406002.67	520497.83	12	592.98	7115.82
18	ISO7-100	2	405734.04	520428.85	11.6	35.05	406.56
19	JSO6	1	406006.952	520496.608	10.5	770.88	8094.20
20	TP7-2-A	2	405756.36	520433.91	9.7	1253.41	12158.07
21	MOA-C-B4-A	1	406046.85	520621.20	8.8	967.30	8512.24
22	MOA-C-B12	3	406076.05	520614.85	8.6	994.07	8548.96
23	TP7-5	1	405803.25	520389.41	7.4	2820.29	20870.17
24	SB-8-SO-17	1	405975.05	520505.69	6.5	3520.75	22884.85
25	MOA-C-B6	3	406047.16	520561.92	6.1	2799.93	17079.56
26	MOA-C-B5	3	406018.19	520590.54	5.4	3404.14	18382.36
27	SB-8-SO-18	1	405981.05	520502.69	4.3	637.33	2740.53
28	TP7-3	2	405806.94	520426.09	4	1707.48	6829.91
29	MW-78	2	405862.98	520516.72	2.6	3151.62	8194.21
SUM						**44655.59**	**597354.45**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**13.4**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-11							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	B9-2-103	2	406863.42	521142.91	407	122.88	50012.09
2	B9-2-100	2	406865.66	521138.45	365	34.37	12543.92
3	B9-2-101	2	406870.372	521138.567	356	159.55	56798.69
4	SB-AOC09-2013-102	1	406878.99	521155.17	325	695.22	225945.25
5	B9-3-A	1	406925.00	521161.80	33.8	2849.87	96325.53
6	B9-2-102	2	406861.84	521134.78	26.3	752.49	19790.51
7	SB-AOC09-2013-101	2	406857.69	521151.39	25.7	2511.34	64541.39
8	SB-AOC09-2013-100	1	406878.6374	521129.0375	8.8	606.03	5333.05
9	B9-1-A	1	406901.63	521128.86	7.2	1624.58	11696.98
10	HSO23	1	406859.59	521109.42	5.3	3495.95	18528.53
11	HSO20	1	406886.439	521177.42	4.1	1663.43	6820.06
12	HSO19	1	406925.07	521206.73	2.6	1617.16	4204.61
SUM						**16132.85**	**572540.61**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**35.5**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-12							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	ISO6-103	4	405721.71	520480.90	71.2	1266.54	90177.92
2	ISO6-102	4	405715.64	520476.76	62.8	7382.51	463621.79
3	ISO6-100	4	405720.35	520476.32	34.7	31.75	1101.56
4	ISO5-101	2	405737.54	520476.73	33.7	1239.55	41772.86
5	ISO5-102	2	405729.98	520481.20	28.5	90.56	2580.88
6	ISO6-101	4	405723.20	520472.29	18	1426.39	25675.05
7	ISO5-103	2	405736.05	520485.34	15.2	3361.52	51095.04
8	ISO5-100	2	405734.69	520480.68	14.7	31.95	469.72
9	ISO19	1	405578.84	520381.85	13.7	9458.54	129582.03
10	ISO4	1	405806.46	520508.46	3.3	3510.75	11585.46
SUM						**27800.06**	**817662.32**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**29.4**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-13							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	SB-9-SO-8-A-EX1C	2	406741.25	521179.65	250	1617.34	404336.16
2	SB-9-SO-8-A	1	406757.93	521173.01	224	389.76	87307.06
3	SB-9-SO-8-A-EX1A	2	406771.53	521182.43	34	1659.10	56409.47
4	TP10-3	1	406836.77	521182.90	12	1973.44	23681.31
5	SB-9-SO-8-A-EX1G	2	406689.17	521170.07	9.1	1570.01	14287.05
6	SB-9-SO-8-A-EX1B	2	406757.64	521155.77	8.6	1427.21	12273.97
7	HSO21	1	406834.75	521181.03	8.1	1069.51	8663.06
8	SB-9-SO-8-A-EX1D	2	406762.09	521208.68	7	4362.02	30534.17
9	SB-9-SO-8-A-EX1E	1	406724.87	521148.82	4.5	2064.45	9290.02
SUM						**16132.85**	**646782.26**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**40.1**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-14							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	FSO5-A	1	406279.13	520913.87	109	1050.40	114494.01
2	B3-16-A	1	406250.94	520913.65	37.4	592.17	22147.23
3	FSO3	1	406275.73	520994.12	20.1	1123.47	22581.83
4	SB-3-SO-11	1	406249.65	520945.54	17	422.50	7182.51
5	FSO6	1	406248.83	520900.06	15	1732.58	25988.70
6	B3-15	2	406244.81	520974.07	14	774.53	10843.39
7	FSO4	1	406290.23	520984.52	13.6	2392.18	32533.69
8	B3-17	2	406274.42	520951.82	13	983.44	12784.74
9	B3-14	2	406245.50	520937.34	12	481.29	5775.45
10	SB-3-SO-12	1	406273.65	520935.54	12	712.72	8552.64
11	FSO2	1	406236.45	520964.45	7.3	929.90	6788.28
12		1	406218.60	520930.32	6	2456.63	14739.77
13	HSO1	1	406329.14	520945.52	4.3	2481.03	10668.44
SUM						**16132.85**	**295080.67**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**18.3**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-15							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	B6-201	2	405993.32	520788.94	76.2	2739.19	208726.22
2	FSO27-A	2	406032.44	520794.04	31	1531.73	47483.52
3	FSO29	1	406045.39	520824.94	30.6	1232.43	37712.29
4	B3-27	2	406049.28	520841.65	13	2032.62	26424.09
5	B3-28	2	406032.19	520799.48	12	321.74	3860.92
6	B3-29	2	406013.46	520746.90	12	1556.58	18678.94
7	FSO26	1	406004.78	520765.89	6.1	1803.87	11003.59
8	B3-4-200	1	406021.22	520816.49	6	1842.32	11053.90
9	FSO28-A	1	406040.67	520815.54	3.7	879.72	3254.98
10	SB-5-SO-2	1	405922.65	520794.54	2	2192.66	4385.31
SUM						**16132.85**	**372583.75**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**23.1**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-17							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	GRB2-1	1	406203.25	521248.03	31	755.34	23415.59
2	GSO6	1	406221.70	521247.97	10	1577.82	15778.23
3	GSO4	1	406193.68	521239.17	6	1286.90	7721.40
4	GSO5	1	406213.78	521261.89	5.8	1685.79	9777.60
SUM						**5305.86**	**56692.82**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**10.7**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-18							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	B6-3-A	2	405531.02	520923.49	28.2	5144.75	145081.89
2	B6-2	2	405550.65	520828.24	12	2860.94	34331.34
3	305-1	2	405629.29	520898.45	3.9	3855.23	15035.41
SUM						**11860.93**	**194448.63**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**16.4**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-19							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	PL10-15	1	405511.65	521821.94	30.8	222.73	6859.99
2	PL10-104	2	405502.76	521815.45	7.8	582.49	4543.39
3	PL10-02	1	405498.75	521805.03	7.5	649.83	4873.76
4	PL10-105	2	405506.93	521823.58	7.5	162.46	1218.42
5	PL10-04	1	405519.32	521856.75	5.9	1322.39	7802.11
6	PL10-14	1	405511.15	521772.64	1.5	396.49	594.73
7	PL10-03	2	405508.61	521830.61	1.5	1244.83	1867.25
8	PL10-09	1	405542.58	521811.13	1.1	728.47	801.32
9	PL10-13	1	405497.16	521780.38	1.1	253.79	279.17
10	PL10-10	1	405532.72	521785.49	1.1	629.43	692.37
11	PL10-16	1	405530.09	521815.05	1.1	640.84	704.92
SUM						**6833.74**	**30237.42**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**4.4**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-1
ARSENIC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-AS-20							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	SB-AOC09-2013-104-EX1A	2	406971.71	521114.21	220	2302.31	506508.78
2	SB-AOC09-2013-104	1	406997.56	521110.93	135	812.04	109625.24
3	SB-AOC09-2013-104-EX1C	2	407031.71	521118.65	60	1781.71	106902.44
4	SB-9-SO-7	1	406909.79	521104.87	31	1124.30	34853.15
5	SB-AOC09-2013-104-EX1E	2	407069.47	521127.27	21	1578.43	33146.96
6	SB-AOC09-2013-104-EX1B	2	407002.27	521138.10	16	1606.64	25706.25
7	SB-AOC09-2013-103	1	407004.36	521086.11	13.7	3371.09	46183.95
8	SB-AOC09-2013-104-EX1D	2	407050.60	521146.99	12	1848.77	22185.26
9	TP10-2	1	406916.07	521042.17	12	2069.13	24829.62
10	B9-5-A	1	406915.75	521068.36	8.6	1894.66	16294.08
SUM						**18389.08**	**926235.73**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**50.4**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-2
ARSENIC CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-AS-01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	SB-AOC8B-2013-105	1	406450.077	520243.585	37.4	4283.953203	160219.8563
2	B8-6	2	406408.23	520267.55	15.0	1767.815754	26517.23631
3	B8-4	1	406531.72	520234.75	14.0	2701.821179	37825.49651
4	B8-8-4	1	406387.235	520180.305	5.5	1586.887297	8727.880131
5	B8-8-3	1	406352.656	520231.287	5.2	792.6006352	4121.523152
6	SB-AOC8B-2013-109	1	406393.9214	520215.2028	4.5	1931.477837	8691.650267
7	SB-AOC8B-2013-108	1	406529.661	520298.4095	3.8	4350.281822	16531.07071
8	SB-AOC8B-2013-103	1	406436.513	520208.3594	1.1	2821.305034	3103.435605
SUM						**20236.14**	**265738.15**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**13.1**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-2
ARSENIC CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-AS-02							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	SB-8-SO-11	1	406389.65	520297.54	24.0	4392.18478	105412.4347
2	SB-AOC8B-2013-104	1	406374.667	520269.9895	7.8	4318.582499	33684.94431
3	SB-AOC8B-2013-106	1	406401.6769	520353.4494	2.5	5706.227077	14265.56769
4	SB-AOC8B-2013-107	1	406461.7919	520327.379	1.8	5699.147806	10258.46578
SUM						**20116.14**	**163621.41**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**8.1**
SITE-SPECIFIC IGWSRS (MG/KG)							**19**

TABLE E-3
BENZENE CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-BZ-02							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**BZ MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**BZ WEIGHTED CONCENTRATION**
1	B8-8	2	406341.67	520187.92	16	217.0958565	3473.53
2	B8-6-103	3	406403.543	520264.946	2.9	678.3550156	1967.23
3	B8-8-2-100	4	406336.685	520203.902	1.6	90.71487369	145.14
4	B8-8-1	3	406334.286	520181.06	1.6	41.97845671	67.17
5	SB-8-SO-14-100	4	406352.65	520196.54	1.2	365.8732203	439.05
6	SB-8-SO-14-101	3	406353.72	520201.354	0.87	486.6440498	423.38
7	B8-6-100	3	406408.23	520267.55	0.84	46.36093366	38.94
8	B8-6-101	3	406411.048	520271.706	0.69	716.5335805	494.41
9	B8-8-2-101	4	406332.176	520200.918	0.6	1138.366065	683.02
10	B8-8-2-102	4	406337.759	520208.716	0.43	811.0918056	348.77
11	B8-8-4-102	4	406386.1204	520175.4421	0.27	561.7720538	151.68
12	B8-8-1-102	4	406329.673	520178.079	0.17	443.0403034	75.32
13	B8-8-1-101	4	406338.407	520177.032	0.13	597.7935596	77.71
14	B8-8-1-103	3	406331.508	520185.777	0.1	306.821192	30.68
15	B8-6-102	3	406412.277	520263.899	0.023	772.1014168	17.76
16	B8-8-4-100	3	406387.235	520180.305	0.0017	57.96528665	0.10
17	SB-AOC8B-2013-100	3	406329.6082	520147.9294	0.0016	615.8440994	0.99
18	SB-AOC8B-2013-109	2	406393.9214	520215.2028	0.0012	1654.632678	1.99
19	SB-AOC8B-2013-103	2	406436.513	520208.3594	0.0012	1261.171743	1.51
20	B8-8-4-101	3	406392.2314	520178.9518	0.0011	383.7599637	0.42
21	SB-AOC8B-2013-104	2	406374.667	520269.9895	0.0011	1039.55392	1.14
22	SB-AOC8B-2013-105	2	406450.077	520243.585	0.001	841.5437615	0.84
23	B8-8-4-103	3	406386.1986	520186.4086	0.001	559.1787303	0.56
24	B8-8-3	1	406352.656	520231.287	0.0006	1679.942712	1.01
SUM						**15368.14**	**8442.35**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**0.549**
SITE-SPECIFIC IGWSRS (MG/KG)							**1**

TABLE E-3
BENZENE CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-BZ-03							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**BZ MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**BZ WEIGHTED CONCENTRATION**
1	TP9-3	2	406572.39	520874.38	1.7	372.9638945	634.04
2	TP9-2-204	3	406572.5883	520799.323	0.48	314.885097	151.14
3	TP9-3-203	3	406597.4551	520874.403	0.32	865.940628	277.10
4	TP9-3-205	3	406572.441	520849.4209	0.17	530.878131	90.25
5	TP9-3-101	2	406577.25	520873.755	0.14	336.568103	47.12
6	TP9-3-204	3	406597.3914	520849.323	0.13	583.084174	75.80
7	HSO5	1	406538.179	520856.579	0.12	216.654144	26.00
8	TP9-3-202	3	406597.2868	520899.2355	0.094	1072.372546	100.80
9	TP9-2	2	406603.86	520814.04	0.018	498.3157231	8.97
10	TP9-3-201	3	406572.354	520899.3382	0.002	487.6148077	0.98
11	TP9-2-200	3	406622.7234	520849.3539	0.0018	1379.541505	2.48
12	TP9-3-206	3	406547.4245	520849.3424	0.0014	422.712463	0.59
13	TP9-3-207	1	406547.4495	520874.5238	0.0011	658.1646612	0.72
14	TP9-2-206	1	406584.9389	520837.142	0.0011	417.5834629	0.46
15	TP9-2-205	1	406572.3699	520824.4856	0.0011	628.284273	0.69
16	TP9-2-201	1	406622.7987	520824.3686	0.00062	419.6025966	0.26
SUM						**9205.17**	**1417.41**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**0.154**
SITE-SPECIFIC IGWSRS (MG/KG)							**1**

TABLE E-3
BENZENE CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-BZ-04							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**BZ MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**BZ WEIGHTED CONCENTRATION**
1	B2-2	1	406103.8	521113.79	15	253.9495829	3809.24
2	B2-1-200	3	406107.5375	521130.0577	2.1	341.3233922	716.78
3	B2-1	1	406119.17	521123.48	1.5	326.7925064	490.19
4	MC7-1	1	406080.864	521128.9	1.4	263.9060359	369.47
5	B2-2-200	3	406088.1172	521114.1083	1.1	283.2276308	311.55
6	GSO7	2	406093.309	521098.973	0.85	1010.817555	859.19
7	GSO8	2	406086.766	521137.756	0.74	267.2381395	197.76
8	GSO11	2	406141.951	521128.654	0.58	279.4702175	162.09
9	GSO3	1	406135.454	521092.966	0.16	581.7590589	93.08
10	GSO9	2	406115.785	521150.094	0.14	383.634547	53.71
11	GSO35	1	406150.61	521115.63	0.12	425.2309493	51.03
12	SB-3-SO-32	2	406068.65	521102.54	0.006	121.7864674	0.73
13	SB-3-SO-31	2	406070.65	521111.54	0.006	301.78421	1.81
14	SB-3-SO-30	2	406069.65	521106.54	0.006	78.1050464	0.47
15	GS09-200	3	406098.3836	521153.1552	0.0014	308.2106455	0.43
16	GS08-201	3	406084.6254	521156.1377	0.0014	473.5314318	0.66
17	B2-2-201	3	406112.9	521102.9	0.0012	573.1457026	0.69
18	GS08-200	3	406072.3943	521140.8438	0.0012	776.820925	0.93
19	GS09-201	3	406110.1899	521164.0594	0.0011	662.2724505	0.73
20	B2-1-201	2	406131.4575	521111.8482	0.001	340.4788491	0.34
21	GS011-201	3	406134.6866	521144.2429	0.001	308.4694131	0.31
SUM						**8361.95**	**7121.19**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**0.852**
SITE-SPECIFIC IGWSRS (MG/KG)							**1**

TABLE E-4
BENZENE CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-BZ-01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**BZ MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**BZ WEIGHTED CONCENTRATION**
1	B3-5	1	406012.77	520808.4	1.5	429.9202044	644.88
2	B3-1	2	406012.66	520823.22	0.78	856.7307574	668.25
3	FSO8	1	406040.978	520803.435	0.14	1240.011525	173.60
4	FSO7	1	406020.26	520783.727	0.14	1833.335609	256.67
5	SB-3-SO-24	1	405992.05	520813.77	0.032	1372.469869	43.92
6	SB-3-SO-22	1	406003.17	520819.59	0.023	123.0020412	2.83
7	SB-3-SO-23	1	405998.25	520821.68	0.007	584.9451614	4.09
8	SB-3-SO-27	1	405983.43	520773.13	0.006	1433.936901	8.60
9	B3-4-200	1	406021.2236	520816.4856	0.0012	487.6026993	0.59
SUM						**8361.95**	**1803.43**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**0.216**
SITE-SPECIFIC IGWSRS (MG/KG)							**1**

TABLE E-4
BENZENE CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-BZ-02							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**BZ MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**BZ WEIGHTED CONCENTRATION**
1	B8-4	1	406531.72	520234.75	1.8	312.6306704	562.7352067
2	B8-4-102	1	406551.361	520246.073	1	613.0778927	613.0778927
3	B8-4-100	1	406545.179	520223.828	0.21	1286.546486	270.1747621
4	B8-4-101	1	406525.31	520242.598	0.18	1373.898795	247.3017831
5	SB-8-SO-12-101	1	406521.275	520211.5	0.037	442.2777095	16.36427546
6	B8-4-103	1	406537.238	520249.321	0.032	1039.133339	33.25226684
7	SB-10-SO-208	1	406535.14	520199.52	0.002	966.3139251	1.932627942
SUM						**6033.88**	**1744.84**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**0.289**
SITE-SPECIFIC IGWSRS (MG/KG)							**1**

TABLE E-5
CHLOROBENZENE CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-CB-01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CB MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CB WEIGHTED CONCENTRATION**
1	TP9-3-203	3	406597.4551	520874.403	130	742.9856047	96588.12862
2	TP9-3	2	406572.39	520874.38	1.7	193.1105884	328.2880002
3	TP9-3-202	3	406597.2868	520899.2355	0.16	665.3347192	106.4535551
4	TP9-3-101	2	406577.25	520873.755	0.14	359.6504642	50.35106498
5	TP9-3-204	3	406597.3914	520849.323	0.088	795.8777431	70.03724101
6	TP9-3-201	3	406572.354	520899.3382	0.002	1033.908287	2.067816672
7	TP9-2-200	3	406622.7234	520849.3539	0.0011	727.1253556	0.799837887
SUM						**4517.99**	**97146.13**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**21.50**
SITE-SPECIFIC IGWSRS (MG/KG)							**83**

TABLE E-6
CHLOROBENZENE CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-CB-01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CB MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CB WEIGHTED CONCENTRATION**
1	SB-AOC8B-2013-104	1	406374.667	520269.9895	87.00	1120.96	97523.90
2	B8-6-100	1	406408.23	520267.55	1.5	1336.01	2004.02
3	SB-8-SO-11	1	406389.65	520297.54	0.95	837.19	795.33
4	JSO11-101	1	406363.1	520283.01	0.13	1626.31	211.42
5	B8-8-3	1	406352.656	520231.287	0.0059	1203.28	7.10
6	SB-AOC8B-2013-109	1	406393.9214	520215.2028	0.00	1391.33	1.67
SUM						**7515.09**	**100543.43**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**13.38**
IGWSSSRS (MG/KG) FOR CHLOROBENZENE							**83**

TABLE E-7
CHROMIUM CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-CR-01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CR MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CR WEIGHTED CONCENTRATION**
1	SB-AOC10-2013-115	2	406806.797	520386.8906	10800	2498.91	26988269.83
2	SB-10-SO-7-103	4	406782.34	520378.794	4500	222.09	999404.02
3	WSO13	1	406840.362	520327.172	635	2533.54	1608797.23
4	SB-AOC10-2013-111	2	406777.7679	520312.1155	530	1769.44	937805.30
5	SB-10-SO-7-101	3	406783.57	520370.987	114	611.28	69685.56
6	SB-10-SO-7-100	3	406779.65	520374.54	59	42.96	2534.72
7	SB-AOC10-2013-114	2	406774.3438	520389.3162	55	400.62	22033.97
8	SB-10-SO-7-102	3	406774.84	520372.035	37.2	610.44	22708.45
9	SB-AOC10-2013-112	2	406773.1405	520352.951	35.8	1572.58	56298.53
SUM						**10261.87**	**30707537.61**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**2992**
SITE-SPECIFIC IGWSRS (MG/KG)							**1540**

TABLE E-7
CHROMIUM CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-CR-02							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CR MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CR WEIGHTED CONCENTRATION**
1	SB-AOC10-2013-106	2	406617.39	520307.06	3590	1472.876686	5287627.30
2	B9-19	1	406628.27	520319.05	700	965.9598659	676171.91
3	B8-3	2	406591.48	520327.19	640	942.9366471	603479.45
4	B9-18	1	406662.55	520332.12	260	1280.198639	332851.65
5	B9-17	1	406640.08	520343.35	90	1108.792744	99791.35
6	SB-AOC10-2013-107	2	406672.56	520290.94	83.2	2574.851718	214227.66
7	SB-AOC10-2013-105	2	406615.65	520258.68	69.2	1916.253095	132604.71
SUM						**10261.87**	**7346754.03**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**716**
SITE-SPECIFIC IGWSRS (MG/KG)							**1540**

TABLE E-7
CHROMIUM CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-CR-03							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CR MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CR WEIGHTED CONCENTRATION**
1	SB-10-SO-5-102	2	406857.76	520542.80	8520	152.04	1295417.44
2	SB-10-SO-5-100	2	406852.70	520540.59	3320	49.42	164087.13
3	SB-10-SO-5-101	2	406850.39	520544.84	2820	47.25	133239.93
4	SB-10-SO-5A-100	1	406859.70	520524.59	2740	109.29	299458.29
5	SB-10-SO-5A-101	1	406855.73	520521.42	1510	1603.03	2420582.11
6	SB-10-SO-5-103	2	406848.87	520537.39	1050	372.23	390838.81
7	WSO14	1	406899.05	520539.91	207	4217.90	873104.75
8	SB-10-SO-5A-102	1	406864.62	520526.83	140	478.77	67028.24
9	SB-AOC10-2013-120	1	406870.10	520549.05	100	633.57	63357.27
10	WSO6	1	406896.31	520519.47	29.8	4686.73	139664.49
11	SB-10-SO-4	2	407011.65	520554.54	24	5250.68	126016.24
SUM						**17600.92**	**5972794.69**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**339**
SITE-SPECIFIC IGWSRS (MG/KG)							**1540**

TABLE E-7
CHROMIUM CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-CR-04							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CR MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CR WEIGHTED CONCENTRATION**
1	SB-AOC10-2013-119	2	406812.02	520564.00	4500	4034.35	18154575.03
2	SB-AOC10-2013-124	2	406881.99	520635.22	2850	1967.71	5607961.33
3	SB-AOC10-2013-122	2	406893.64	520585.73	2040	2222.20	4533291.45
4	SB-AOC10-2013-121	2	406840.91	520601.89	1470	2531.50	3721299.79
5	HSO13	1	406747.21	520498.42	977	2257.65	2205727.75
6	SB-10-SO-3	3	406814.65	520639.54	890	1030.68	917309.21
7	SB-AOC10-2013-128	2	406903.45	520689.99	449	907.28	407368.75
8	SB-AOC10-2013-125	2	406853.93	520660.55	276	1222.39	337378.86
9	SB-AOC10-2013-123	2	406920.73	520640.18	203	2186.99	443959.27
10	HSO14	1	406785.73	520608.36	94.4	1753.27	165508.72
11	B9-12	1	406716.99	520548.64	47	1779.27	83625.56
12	B9-11	1	406747.04	520581.55	38	2372.97	90172.83
SUM						**24266.26**	**36668178.56**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**1511**
SITE-SPECIFIC IGWSRS (MG/KG)							**1540**

TABLE E-7
CHROMIUM CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-CR-05							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CR MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CR WEIGHTED CONCENTRATION**
1	SB-7-SO-7	5	405908.28	520375.18	8100	3015.64	24426717.88
2	B7-2	3	405868.66	520350.08	1300	5985.14	7780687.20
3	MW-22	2	405962.35	520326.62	57	5426.67	309320.33
4	B7-6	2	405965.06	520416.27	15	2288.79	34331.87
SUM						**16716.25**	**32551057.28**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**1947**
SITE-SPECIFIC IGWSRS (MG/KG)							**1540**

TABLE E-7
CHROMIUM CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-CR-06							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CR MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CR WEIGHTED CONCENTRATION**
1	MOA-C-B7	3	406075.34	520534.67	2200	581.07	1278348.89
2	MOA-C-B15	3	406096.71	520538.05	1850	447.16	827254.83
3	MOA-C-B8-103	3	406098.88	520513.28	1550	370.87	574847.00
4	MOA-C-B8-100	3	406101.84	520509.10	782	36.76	28743.34
5	MOA-C-B8-101	3	406106.72	520508.52	225	217.07	48841.34
6	B-4C	1	406094.08	520546.81	209	327.86	68521.86
7	B-3B	1	406133.21	520537.86	182	298.38	54305.53
8	MOA-C-B8-102	3	406098.41	520504.42	181	1105.90	200167.91
9	MOA-C-B10	1	406123.53	520511.34	111	848.74	94209.86
10	B-4D	1	406128.28	520535.53	86	455.61	39182.37
11	B-3A	1	406120.71	520505.04	50.6	444.80	22506.97
12	B-4B	1	406107.36	520559.00	48.3	547.89	26462.92
13	MOA-C-B9	3	406123.03	520478.14	44.6	1583.56	70626.95
14	ZSO6	5	406066.22	520516.66	27	1157.88	31262.83
SUM						**8423.55**	**3365282.60**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**400**
SITE-SPECIFIC IGWSRS (MG/KG)							**1540**

TABLE E-7
CHROMIUM CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-CR-07							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CR MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CR WEIGHTED CONCENTRATION**
1	SB-7-SO-4	5	405917.72	520420.99	6600	2924.27	19300202.80
2	SB-7-SO-6	4	405828.35	520387.70	2700	1446.61	3905849.04
3	TP7-3	2	405806.94	520426.09	977	1585.65	1549177.81
4	SB-7-SO-3	5	405852.72	520440.99	900	3185.17	2866649.37
5	SB-7-SO-5	4	405866.65	520375.54	640	1317.67	843306.02
6	TP7-4	2	405848.11	520395.31	485	1041.50	505128.41
7	TP7-5	1	405803.25	520389.41	327	922.25	301577.30
8	ISO11	2	405932.80	520465.90	112	1765.75	197763.45
9	B7-5	3	405925.66	520489.91	47	1627.05	76471.35
10	B7-1	1	405835.34	520416.27	37	900.34	33312.49
SUM						**16716.25**	**29579438.04**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**1770**
SITE-SPECIFIC IGWSRS (MG/KG)							**1540**

TABLE E-7
CHROMIUM CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-CR-08							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CR MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CR WEIGHTED CONCENTRATION**
1	MOA-C-B11	3	406054.26	520592.05	1700	987.66	1679025.39
2	MOA-C-B13	3	406087.44	520575.16	1650	507.87	837981.20
3	B-4E	1	406079.03	520561.46	533	639.50	340855.58
4	B-4A	1	406101.44	520578.72	65.1	429.64	27969.36
5	MOA-C-B4	3	406046.85	520621.20	56.7	1413.56	80148.83
6	MOA-C-B12	3	406076.05	520614.85	50.2	786.19	39466.95
7	MOA-C-B5	3	406018.19	520590.54	27.2	1395.05	37945.26
8	B-4F	1	406088.37	520604.01	24.3	483.71	11754.07
9	MOA-C-B6	3	406047.16	520561.92	21.1	1536.90	32428.63
SUM						**8180.08**	**3087575.27**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**377**
SITE-SPECIFIC IGWSRS (MG/KG)							**1540**

TABLE E-7
CHROMIUM CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-CR-09							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CR MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CR WEIGHTED CONCENTRATION**
1	PL07-02	1	405789.17	521151.70	5080	250.87	1274408.82
2	PL07-04	2	405831.35	521114.72	1100	483.68	532051.99
3	PL07-102	3	405789.20	521151.70	926	943.78	873937.57
4	PL07-107	3	405753.84	521137.64	327	860.65	281432.92
5	PL07-100	3	405758.94	521156.16	112	768.41	86062.08
6	PL07-01	2	405778.16	521131.87	75.9	987.19	74928.08
7	PL07-104	3	405832.28	521139.64	59.5	1742.93	103704.41
8	PL07-03	3	405824.80	521120.08	34.8	811.20	28229.65
9	PL07-106	2	405782.43	521095.78	26.6	1450.95	38595.36
10	PL07-103	3	405832.89	521178.08	25.2	2457.11	61919.10
11	PL07-101	3	405771.13	521162.31	22.6	1104.15	24953.82
SUM						**11860.93**	**3380223.79**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**285**
SITE-SPECIFIC IGWSRS (MG/KG)							**1540**

TABLE E-7
CHROMIUM CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-CR-10							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CR MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CR WEIGHTED CONCENTRATION**
1	PL09-01	1	405897.79	521731.99	3620	3511.31	12710958.22
2	PL09-02	1	405907.39	521753.71	545	1175.73	640771.75
3	PL09-03	1	405920.70	521724.33	92.6	1348.32	124854.54
4	PL11-03	1	405868.33	521645.33	35.7	2909.81	103880.25
5	PL09-04	1	405927.11	521742.58	23.2	371.69	8623.30
6	PL09-05	1	405946.99	521707.87	20.9	1315.72	27498.46
7	PL11-01	2	405809.98	521671.15	5.4	1710.36	9235.92
8	PL11-02	1	405820.77	521666.83	3.2	2277.09	7286.70
SUM						**14620.03**	**13633109.14**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**932**
SITE-SPECIFIC IGWSRS (MG/KG)							**1540**

TABLE E-8
CHROMIUM CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-CR-01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CR MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CR WEIGHTED CONCENTRATION**
1	SB-10-SO-209	1	406649.4923	520210.8116	2260	1928.555228	4358534.81
2	SB-10-SO-10	1	406625.65	520173.54	1800	1937.893059	3488207.51
3	SB-AOC10-2013-100	1	406622.5397	520142.4698	575	842.5046569	484440.18
4	SB-AOC10-2013-109	1	406707.193	520202.8608	518	2447.754801	1267936.99
5	SB-10-SO-210	1	406642.2702	520212.8033	28	2456.006561	68768.18
6	SB-AOC10-2013-101	1	406591.4378	520185.9081	23.1	2025.899861	46798.29
7	SB-10-SO-9	1	406691.65	520260.54	15	2532.646154	37989.69
SUM						**14171.26**	**9752675.65**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**688**
SITE-SPECIFIC IGWSRS (MG/KG)							**1540**

TABLE E-8
CHROMIUM CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-CR-02							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CR MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CR WEIGHTED CONCENTRATION**
1	B8-4	1	406531.72	520234.75	2400	3085.652346	7405565.63
2	SB-AOC8B-2013-105	1	406450.077	520243.585	1520	2435.169376	3701457.452
3	SB-AOC10-2013-103	1	406578.5105	520232.4091	426	973.8701393	414868.6793
4	SB-10-SO-208	1	406535.14	520199.52	33.4	889.9312648	29723.70424
5	SB-AOC8B-2013-102	1	406493.8776	520187.0451	31	1903.829944	59018.72827
6	SB-AOC8B-2013-108	1	406529.661	520298.4095	12.9	2146.691033	27692.31432
SUM						**11435.14**	**11638326.51**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**1018**
SITE-SPECIFIC IGWSRS (MG/KG)							**1540**

TABLE E-8
CHROMIUM CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-CR-03							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**CR MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CR WEIGHTED CONCENTRATION**
1	SB-10-SO-2	2	406939.65	520727.54	2600	1374.42	3573499.66
2	SB-10-SO-1	2	406977.65	520786.54	25	2684.92	67122.93
3	SB-AOC10-2013-127	1	406917.01	520735.20	19	2861.66	54371.63
4	SB-AOC10-2013-128	1	406903.45	520689.99	17.7	1810.46	32045.07
5	SB-AOC10-2013-129	1	406954.52	520718.01	16.7	3647.84	60918.92
SUM						**12379.30**	**3787958.21**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**306**
SITE-SPECIFIC IGWSRS (MG/KG)							**1540**

TABLE E-9
NICKEL CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-NI-01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**NI MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**NI WEIGHTED CONCENTRATION**
1	SB-10-SO-5-102	2	406857.76	520542.801	20300	160.5801534	3259777.11
2	SB-10-SO-5-100	2	406852.7	520540.59	10600	49.423834	523892.64
3	SB-10-SO-5A-100	1	406859.7	520524.59	7470	109.2913464	816406.36
4	SB-10-SO-5-101	2	406850.39	520544.844	6360	87.25235558	554924.98
5	SB-10-SO-5-103	2	406848.87	520537.39	2770	653.5892597	1810442.25
6	SB-AOC10-2013-118	2	406836.1258	520467.1246	1300	4442.624912	5775412.39
7	SB-AOC10-2013-117	2	406788.8779	520485.7086	668	1822.28974	1217289.55
8	SB-10-SO-5A-101	1	406855.73	520521.422	305	1423.131862	434055.22
9	WSO14	1	406899.051	520539.906	235	652.2655825	153282.41
10	SB-AOC10-2013-120	1	406870.099	520549.0508	171	694.621825	118780.33
11	SB-10-SO-5A-102	1	406864.62	520526.833	112	478.7731389	53622.59
12	WSO6	1	406896.308	520519.466	37.1	3100.729306	115037.06
SUM						**13674.57**	**14832922.88**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**1085**
SITE-SPECIFIC IGWSRS (MG/KG)							**9200**

TABLE E-9
NICKEL CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-NI-02							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**NI MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**NI WEIGHTED CONCENTRATION**
1	SB-AOC10-2013-106	2	406617.3888	520307.0628	12200	1524.280568	18596222.93
2	B9-19	1	406628.27	520319.05	1800	907.8784302	1634181.17
3	SB-AOC10-2013-103	2	406578.5105	520232.4091	1770	2418.076242	4279994.95
4	B8-3	2	406591.48	520327.19	1600	1691.712179	2706739.49
5	B9-18	1	406662.55	520332.12	650	958.2199945	622843.00
6	B9-17	1	406640.08	520343.35	260	893.4441991	232295.49
7	SB-9-SO-1	1	406621.95	520351	250	624.8099332	156202.48
8	SB-AOC10-2013-107	2	406672.5599	520290.936	190	1936.891728	368009.43
9	B8-4	1	406531.72	520234.75	74	3125.259708	231269.22
10	SB-AOC10-2013-105	2	406615.6532	520258.6784	66.2	2484.795074	164493.43
11	SB-AOC8B-2013-108	2	406529.661	520298.4095	30.7	2553.207611	78383.47
SUM						**19118.58**	**29070635.06**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**1521**
SITE-SPECIFIC IGWSRS (MG/KG)							**9200**

TABLE E-9
NICKEL CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-NI-03							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**NI MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**NI WEIGHTED CONCENTRATION**
1	SB-AOC10-2013-119	2	406812.0217	520563.9952	13800	3914.655727	54022249.03
2	SB-10-SO-3	3	406814.65	520639.54	2700	824.7368054	2226789.37
3	HSO13	1	406747.208	520498.418	2250	2180.435974	4905980.94
4	SB-AOC10-2013-121	2	406840.9098	520601.8908	1500	1829.549337	2744324.01
5	HSO14	1	406785.733	520608.363	212	1889.821173	400642.09
6	B9-12	1	406716.99	520548.64	140	2091.519682	292812.76
7	B9-11	1	406747.04	520581.55	64	2539.456033	162525.19
SUM						**15270.17**	**64755323.39**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**4241**
SITE-SPECIFIC IGWSRS (MG/KG)							**9200**

TABLE E-9
NICKEL CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-NI-04							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**NI MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**NI WEIGHTED CONCENTRATION**
1	SB-7-SO-5	4	405866.65	520375.54	11000	1322.441271	14546853.98
2	SB-7-SO-7	5	405908.28	520375.18	4500	2195.864783	9881391.52
3	SB-7-SO-4	5	405917.72	520420.99	3100	2547.41464	7896985.38
4	B7-2	3	405868.66	520350.08	740	2357.718216	1744711.48
5	TP7-4	2	405848.1057	520395.3115	573	1152.863601	660590.84
6	SB-7-SO-6	4	405828.35	520387.7	330	1363.240032	449869.21
7	B7-1	1	405835.34	520416.27	33	1164.39481	38425.03
8	TP7-5	1	405803.2534	520389.4052	27.2	711.0960501	19341.81
SUM						**12815.03**	**35238169.26**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**2750**
SITE-SPECIFIC IGWSRS (MG/KG)							**9200**

TABLE E-9
NICKEL CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-NI-05							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**NI MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**NI WEIGHTED CONCENTRATION**
1	PL07-107	3	405753.836	521137.637	31100	1946.939201	60549809.15
2	PL07-01	2	405778.161	521131.873	11100	987.1947157	10957861.34
3	PL07-100	3	405758.937	521156.158	1240	861.5142397	1068277.66
4	PL07-101	3	405771.13	521162.311	978	1218.1127	1191314.22
5	PL07-04	2	405831.348	521114.715	967	250.5617656	242293.23
6	PL07-02	1	405789.17	521151.702	108	250.8678777	27093.73
7	PL07-102	3	405789.195	521151.702	106	1184.117417	125516.45
8	PL07-03	3	405824.802	521120.075	45.4	1114.926811	50617.68
9	PL07-105	3	405782.434	521095.778	20.7	1776.966726	36783.21
10	MW-81	2	405730.22	521092.76	17.7	2269.724105	40174.12
SUM						**11860.93**	**74289740.78**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**6263**
SITE-SPECIFIC IGWSRS (MG/KG)							**9200**

TABLE E-10
NICKEL CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-NI-01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**NI MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**NI WEIGHTED CONCENTRATION**
1	SB-AOC8B-2013-104	1	406374.667	520269.9895	33900	3346.459987	113444993.57
2	SB-8-SO-11	1	406389.65	520297.54	640	3419.16967	2188268.59
3	B8-6	2	406408.23	520267.55	100	1705.102531	170510.25
4	B8-8-3	1	406352.656	520231.287	26.2	1791.137143	46927.79
SUM						**10261.87**	**115850700.20**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**11289**
SITE-SPECIFIC IGWSRS (MG/KG)							**9200**

TABLE E-11
TRICHLOROETHENE CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-TCE-03							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**TCE MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**TCE WEIGHTED CONCENTRATION**
1	B2-2	1	406103.8	521113.79	15	253.9495829	3809.24
2	B2-1	1	406119.17	521123.48	2.5	326.7925064	816.98
3	B2-1-200	3	406107.5375	521130.0577	2.1	341.3233922	716.78
4	MC7-1	1	406080.864	521128.9	1.4	263.9060359	369.47
5	B2-2-200	3	406088.1172	521114.1083	1.1	283.2276308	311.55
6	GSO7	2	406093.309	521098.973	0.85	1010.817555	859.19
7	GSO8	2	406086.766	521137.756	0.74	267.2381395	197.76
8	GSO11	2	406141.951	521128.654	0.58	279.4702175	162.09
9	GSO3	1	406135.454	521092.966	0.16	581.7590589	93.08
10	GSO9	2	406115.785	521150.094	0.14	383.634547	53.71
11	GSO35	1	406150.61	521115.63	0.12	425.2309493	51.03
12	SB-3-SO-32	2	406068.65	521102.54	0.006	121.7864674	0.73
13	SB-3-SO-31	2	406070.65	521111.54	0.006	301.78421	1.81
14	SB-3-SO-30	2	406069.65	521106.54	0.006	78.1050464	0.47
15	GS09-200	3	406098.3836	521153.1552	0.0014	308.2106455	0.43
16	GS08-201	3	406084.6254	521156.1377	0.0014	473.5314318	0.66
17	B2-2-201	3	406112.9	521102.9	0.0012	573.1457026	0.69
18	GS08-200	3	406072.3943	521140.8438	0.0012	776.820925	0.93
19	GS09-201	3	406110.1899	521164.0594	0.0011	662.2724505	0.73
20	B2-1-201	2	406131.4575	521111.8482	0.001	340.4788491	0.34
21	GS011-201	3	406134.6866	521144.2429	0.001	308.4694131	0.31
SUM						**8361.95**	**7447.99**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**0.891**
SITE-SPECIFIC IGWSRS (MG/KG)							**1**

TABLE E-11
TRICHLOROETHENE CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-TCE-04							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**TCE MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**TCE WEIGHTED CONCENTRATION**
1	B8-8	2	406341.67	520187.92	0.006	217.0958565	1.30
2	B8-8-2-102	4	406337.759	520208.716	13	1168.413974	15189.38
4	B8-8-1	3	406334.286	520181.06	0.0012	41.97845671	0.05
6	SB-8-SO-14-100	4	406352.65	520196.54	0.00089	542.542272	0.48
7	SB-8-SO-14-101	3	406353.72	520201.354	0.0011	601.474783	0.66
11	B8-8-2-101	4	406332.176	520200.918	0.0012	1277.090542	1.53
14	B8-8-1-102	4	406329.673	520178.079	0.001	388.6952074	0.39
15	B8-8-1-101	4	406338.407	520177.032	0.0011	413.5742663	0.45
17	B8-8-1-103	3	406331.508	520185.777	0.1	279.0671514	27.91
18	B8-8-2-100	4	406336.685	520203.902	0.0816	90.71487364	7.40
25	B8-8-3	1	406352.656	520231.287	0.001	1798.939424	1.80
SUM						**6819.59**	**15231.36**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**2.233**
SITE-SPECIFIC IGWSRS (MG/KG)							**1**

TABLE E-11
TRICHLOROETHENE CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-TCE-06							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**TCE MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**TCE WEIGHTED CONCENTRATION**
1	SB-AOC1C-2013-107	1	405732.8438	521241.4673	7.9	501.8655332	3964.74
2	SB-F9	1	405758.2936	521232.6588	0.032	539.2029562	17.25
3	SB-C8-EX1C	2	405702.922	521232.8964	0.0038	328.6069107	1.25
4	SB-E7	2	405718.363	521286.5619	0.0028	1118.577938	3.13
5	SB-D8	2	405694.0073	521251.8229	0.0015	908.3330115	1.36
6	SB-F8	1	405753.102	521262.2062	0.00093	712.0242898	0.66
7	SB-E6	2	405713.1714	521316.1093	0.00093	702.4089849	0.65
8	SB-AOC1C-2013-106	2	405732.4468	521290.1498	0.00092	630.8471403	0.58
9	SB-E8	2	405723.5546	521257.0145	0.00041	707.157581	0.29
10	SB-F10-EX1C	3	405724.797	521225.6048	0.00014	684.716655	0.10
SUM						**6833.74**	**3990.02**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**0.584**
SITE-SPECIFIC IGWSRS (MG/KG)							**1**

TABLE E-11
TRICHLOROETHENE CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-TCE-07							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**TCE MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**TCE WEIGHTED CONCENTRATION**
1	ISO23	2	405485.312	520508.989	1.6	99.99999993	160.00
2	ISO23-1	2	405485.312	520518.989	0.001	1863.052763	1.86
3	ISO23-2	2	405495.312	520508.989	0.001	1485.737616	1.49
4	ISO23-3	1	405485.312	520498.989	0.001	1860.840559	1.86
5	ISO23-4	2	405475.312	520508.989	0.001	1521.35436	1.52
SUM						**6830.99**	**166.73**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**0.024**
SITE-SPECIFIC IGWSRS (MG/KG)							**1**

TABLE E-11
TRICHLOROETHENE CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-TCE-08							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**TCE MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**TCE WEIGHTED CONCENTRATION**
1	SB-7-SO-6	4	405828.35	520387.7	1.6	1404.326017	2246.92
2	SB-7-SO-5	4	405866.65	520375.54	0.007	827.1152264	5.79
3	B7-2	3	405868.66	520350.08	0.006	1243.26605	7.46
4	B7-1	1	405835.34	520416.27	0.005	959.0172789	4.80
5	TP7-3	2	405806.936	520426.0939	0.005	664.2213563	3.32
6	TP7-4	2	405848.1057	520395.3115	0.0027	689.2893414	1.86
7	TP7-5	1	405803.2534	520389.4052	0.0011	1046.505687	1.15
SUM						**6833.74**	**2271.30**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**0.332**
SITE-SPECIFIC IGWSRS (MG/KG)							**1**

TABLE E-11
TRICHLOROETHENE CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-TCE-09							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**TCE MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**TCE WEIGHTED CONCENTRATION**
1	JSO19	1	406112.186	520327.303	4.6	128.2762903	590.07
2	JSO29	1	406098.015	520332.374	1.5	264.7650155	397.15
3	JSO33	1	406104.465	520308.18	0.92	1213.894484	1116.78
4	JSO32	1	406126.393	520334.589	0.7	375.3300185	262.73
5	JSO30	1	406112.19	520327.303	0.25	123.8847501	30.97
6	JSO31	1	406126.856	520319.651	0.19	902.3519832	171.45
7	MOA-B-BS2	1	406122.53	520356.04	0.16	248.5120593	39.76
8	MOA-B-S20	1	406102.01	520336.01	0.16	272.8018885	43.65
9	MOA-B-S23	1	406105.94	520372.87	0.16	380.6685942	60.91
10	MOA-B-S11	1	406083.08	520327.54	0.15	713.6576273	107.05
11	MOA-B-BS1	1	406116.14	520341.79	0.15	221.3711981	33.21
12	MOA-B-S22	1	406101.15	520370.65	0.15	688.3232871	103.25
13	MOA-B-BS3	1	406109.26	520358.98	0.15	337.0962294	50.56
14	MOA-B-S12	1	406063.05	520353.33	0.085	962.8075449	81.84
SUM						**6833.74**	**3089.37**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**0.452**
SITE-SPECIFIC IGWSRS (MG/KG)							**1**

TABLE E-11
TRICHLOROETHENE CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-TCE-10							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**TCE MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**TCE WEIGHTED CONCENTRATION**
1	SB-F10	1	405763.4853	521203.1114	31	553.7377	17165.87
2	PL07-02	1	405789.17	521151.702	0.14	2155.14363	301.72
3	PL07-01	1	405778.161	521131.873	0.14	784.989242	109.90
4	SB-F10-EX1B	2	405780.6998	521214.32	0.084	1138.133104	95.60
5	SB-AOC1C-2013-108	3	405754.7307	521192.2842	0.008	1388.81049	11.11
6	SB-F10-EX1A	1	405749.6234	521211.3686	0.0054	812.9268169	4.39
SUM						**6833.74**	**17688.59**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**2.588**
SITE-SPECIFIC IGWSRS (MG/KG)							**1**

TABLE E-13
VINYL CHLORIDE CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-VC-01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**VC MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**VC WEIGHTED CONCENTRATION**
1	B7-3	3	405778.17	520450.87	12	31.95150734	383.4180881
2	TP7-3	2	405806.94	520426.09	0.0067	910.19	6.09828288
3	B7-3-101	3	405780.9279	520446.8743	0.0026	581.3779881	1.511582773
4	B7-3-102	3	405773.3688	520451.3479	0.0023	718.1902139	1.651837529
5	B7-3-103	3	405779.4412	520455.4858	0.002	908.7985417	1.81759717
SUM						**3150.51**	**394.50**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**0.125**
SITE-SPECIFIC IGWSRS (MG/KG)							**10**

TABLE E-15
ZINC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-ZN-01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**ZN MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**ZN WEIGHTED CONCENTRATION**
1	SB-AOC10-2013-108	3	406713.6501	520248.9376	17700	3765.041225	66641229.68
2	SB-AOC10-2013-111	2	406777.7679	520312.1155	2900	4541.013527	13168939.23
3	WSO1	1	406693.955	520301.71	1830	1653.257617	3025461.44
4	SB-10-SO-9	4	406691.65	520260.54	1500	955.4038846	1433105.83
5	SB-AOC10-2013-109	2	406707.193	520202.8608	1020	940.3700042	959177.40
6	MW-75	1	406675.3	520260.88	33.3	540.727993	18006.24
SUM						**12395.81**	**85245919.82**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**6877**
SITE-SPECIFIC IGWSRS (MG/KG)							**14200**

TABLE E-15
ZINC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-ZN-02							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**ZN MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**ZN WEIGHTED CONCENTRATION**
1	SB-AOC10-2013-116	2	406752.9854	520429.6417	60700	3427.568645	208053416.78
2	SB-AOC10-2013-115	2	406806.797	520386.8906	40700	2637.704531	107354574.40
3	HSO12	1	406719.906	520384.393	28100	2496.392866	70148639.52
4	SB-10-SO-7-103	4	406782.34	520378.794	11400	222.0897816	2531823.51
5	SB-10-SO-7-102	3	406774.84	520372.035	9520	429.8930847	4092582.17
6	SB-AOC10-2013-112	2	406773.1405	520352.951	8180	617.4276551	5050558.22
7	SB-10-SO-7-100	3	406779.65	520374.54	6600	42.96138548	283545.14
8	SB-10-SO-7-101	3	406783.57	520370.987	4170	274.6514334	1145296.48
9	SB-AOC10-2013-118	2	406836.1258	520467.1246	3560	3660.355131	13030864.27
10	SB-AOC10-2013-113	2	406729.545	520376.7109	2540	1357.873798	3448999.45
11	WSO1	1	406693.955	520301.71	1830	726.9066875	1330239.24
12	SB-AOC10-2013-110	2	406722.7949	520328.6755	1030	1799.946475	1853944.87
13	B9-16	1	406655.62	520380.44	550	1721.994108	947096.76
14	SB-AOC10-2013-114	2	406774.3438	520389.3162	286	1266.826652	362312.42
15	B9-16-200	2	406651.7547	520384.5066	35.5	251.3187669	8921.82
SUM						**20933.91**	**419642815.04**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**20046**
SITE-SPECIFIC IGWSRS (MG/KG)							**14200**

TABLE E-15
ZINC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-ZN-03							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**ZN MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**ZN WEIGHTED CONCENTRATION**
1	SB-AOC10-2013-103	2	406578.5105	520232.4091	24700	2897.576126	71570130.30
2	SB-AOC10-2013-101	2	406591.4378	520185.9081	9340	1748.502452	16331012.90
3	B8-2	2	406554.28	520160.57	7900	2439.74739	19274004.38
4	SB-AOC10-2013-105	2	406615.6532	520258.6784	2230	2795.891632	6234838.34
5	SB-AOC8B-2013-102	2	406493.8776	520187.0451	649	3049.915834	1979395.38
6	B8-4	1	406531.72	520234.75	370	2886.957235	1068174.18
7	SB-AOC10-2013-104	2	406646.4311	520215.6927	310	1346.34852	417368.04
SUM						**17164.94**	**116874923.52**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**6809**
SITE-SPECIFIC IGWSRS (MG/KG)							**14200**

TABLE E-15
ZINC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-ZN-04							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**ZN MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**ZN WEIGHTED CONCENTRATION**
1	SB-8-SO-14	1	406352.65	520196.54	28000	865.7486808	24240963.06
2	B8-8-1	3	406334.286	520181.06	16800	1290.509438	21680558.56
3	B8-8	2	406341.67	520187.92	14000	424.4505529	5942307.74
4	B8-8-2	2	406336.685	520203.902	1280	1761.081199	2254183.93
5	SB-AOC8B-2013-100	3	406329.6082	520147.9294	354	1561.777914	552869.38
6	B8-8-4	2	406387.235	520180.305	343	1366.470808	468699.49
7	B8-8-3	1	406352.656	520231.287	292	993.9607475	290236.54
8	JSO23	2	406317.16	520152.139	198	1997.870096	395578.28
SUM						**10261.87**	**55825396.98**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**5440**
SITE-SPECIFIC IGWSRS (MG/KG)							**14200**

TABLE E-15
ZINC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-ZN-05							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**ZN MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**ZN WEIGHTED CONCENTRATION**
1	SB-10-SO-5-102	2	406857.76	520542.801	29100	164.3989592	4784009.71
2	SB-AOC10-2013-119	2	406812.0217	520563.9952	20700	4844.87765	100288967.36
3	SB-AOC10-2013-117	2	406788.8779	520485.7086	10900	2123.155855	23142398.82
4	SB-10-SO-5A-100	1	406859.7	520524.59	9430	69.0148637	650810.16
5	SB-10-SO-5-101	2	406850.39	520544.844	7940	691.271974	5488699.47
6	SB-10-SO-5-100	2	406852.7	520540.59	7550	49.42383398	373149.95
7	SB-10-SO-5-103	2	406848.87	520537.39	5350	786.6642029	4208653.49
8	SB-AOC10-2013-121	2	406840.9098	520601.8908	2090	1623.737817	3393612.04
9	SB-10-SO-5A-101	1	406855.73	520521.422	649	544.6265514	353462.63
10	SB-AOC10-2013-120	1	406870.099	520549.0508	444	733.2877418	325579.76
11	SB-10-SO-5A-102	1	406864.62	520526.833	218	176.6913655	38518.72
SUM						**11807.15**	**143047862.10**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**12115**
SITE-SPECIFIC IGWSRS (MG/KG)							**14200**

TABLE E-15
ZINC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-ZN-06							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**ZN MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**ZN WEIGHTED CONCENTRATION**
1	SB-9-SO-3	1	406745.21	520613.8	44000	779.5496672	34300185.36
2	SB-10-SO-3	3	406814.65	520639.54	2100	1527.779133	3208336.18
3	HSO14	1	406785.733	520608.363	544	1454.538327	791268.85
4	B9-11	1	406747.04	520581.55	340	846.9541267	287964.40
5	B10-6	2	406792.04	520679.76	180	2009.166065	361649.89
6	B9-10	1	406739.86	520600.82	83	633.3559714	52568.55
7	GRB9-1	1	406741.64	520644.34	78	1728.872326	134852.04
8	B10-4	1	406713.79	520616.71	75	1218.155545	91361.67
9	B9-9	1	406753.8	520642.23	19	1340.568647	25470.80
SUM						**11538.94**	**39253657.74**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**3402**
SITE-SPECIFIC IGWSRS (MG/KG)							**14200**

TABLE E-15
ZINC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-ZN-07							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**ZN MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**ZN WEIGHTED CONCENTRATION**
1	TP9-2-304	3	406543.3684	520758.7496	34200	6362.149668	217585518.64
2	TP9-3	2	406572.39	520874.38	32000	1066.21966	34119029.13
3	TP9-3-305	3	406523.6363	520814.619	15900	6940.632381	110356054.86
4	TP9-2-202	2	406622.8867	520799.5047	14200	602.2009973	8551254.16
5	TP9-3-203	2	406597.4551	520874.403	10500	885.0426691	9292948.03
6	TP9-2	2	406603.86	520814.04	10000	2994.82868	29948286.80
7	SB-9-SO-9	1	406583.21	520890.16	6400	195.6035721	1251862.86
8	HSO5	1	406538.179	520856.579	38.7	1470.978528	56926.87
9	HSO3	1	406353.393	520701.016	33.8	11514.33395	389184.49
SUM						**32031.99**	**411551065.83**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**12848**
SITE-SPECIFIC IGWSRS (MG/KG)							**14200**

TABLE E-15
ZINC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-ZN-08							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**ZN MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**ZN WEIGHTED CONCENTRATION**
1	MOA-C-B8-100	3	406101.8385	520509.096	28600	36.75618825	1051226.98
2	MOA-C-B15	3	406096.7145	520538.0505	10600	923.9577414	9793952.06
3	MOA-C-B7	3	406075.3386	520534.6749	10300	389.7713749	4014645.16
4	MOA-C-B8-103	3	406098.879	520513.282	7540	400.8729502	3022582.04
5	MOA-C-B8-101	3	406106.72	520508.524	1720	289.1466632	497332.26
6	MOA-C-B10	1	406123.5271	520511.3393	1650	879.2991841	1450843.65
7	MOA-C-B8-102	3	406098.412	520504.42	1500	519.8276933	779741.54
8	MOA-C-B9	3	406123.0261	520478.1428	266	1817.042297	483333.25
SUM						**5256.67**	**21093656.95**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**4013**
SITE-SPECIFIC IGWSRS (MG/KG)							**14200**

TABLE E-15
ZINC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-ZN-09							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**ZN MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**ZN WEIGHTED CONCENTRATION**
1	SB-3-SO-11	1	406249.65	520945.54	29000	560.4284742	16252425.75
2	SB-3-SO-12	1	406273.65	520935.54	270	1562.624028	421908.49
3	B3-15	2	406244.81	520974.07	270	3269.760744	882835.40
4	B3-16	2	406250.94	520913.65	220	2402.266161	528498.56
5	B3-14	2	406245.5	520937.34	130	2076.895929	269996.47
6	B3-17	2	406274.42	520951.82	9	1888.781399	16999.03
SUM						**11760.76**	**18372663.70**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**1562**
SITE-SPECIFIC IGWSRS (MG/KG)							**14200**

TABLE E-15
ZINC CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-ZN-10							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**ZN MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**ZN WEIGHTED CONCENTRATION**
1	268-2	3	405915.476	520960.395	37800	2377.55341	89871518.88
2	268-1	3	405938.334	520951.287	7740	3392.402678	26257196.73
3	304-2	1	405862.521	520868.963	522	1746.398724	911620.13
4	SR-1	1	405895.298	520976.522	312	2350.440636	733337.48
5	304-1	1	405856.042	520879.289	218	3600.384111	784883.74
SUM						**13467.18**	**118558556.96**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**8804**
SITE-SPECIFIC IGWSRS (MG/KG)							**14200**

TABLE E-16
ZINC CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-ZN-01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**ZN MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**ZN WEIGHTED CONCENTRATION**
1	SB-AOC10-2013-109	1	406707.193	520202.8608	40300	2897.026385	116750163.31
2	SB-10-SO-209	1	406649.4923	520210.8116	20900	1807.180969	37770082.25
3	SB-10-SO-10	1	406625.65	520173.54	15000	1759.509532	26392642.99
4	SB-AOC10-2013-100	1	406622.5397	520142.4698	7740	3207.005935	24822225.94
5	SB-10-SO-11	2	406646.65	520124.54	3800	1127.808532	4285672.42
6	SB-10-SO-210	1	406642.2702	520212.8033	717	1096.971713	786528.72
7	SB-10-SO-9	1	406691.65	520260.54	36	1220.34316	43932.35
8	SB-AOC10-2013-101	1	406591.4378	520185.9081	34.2	2836.701552	97015.19
9	SB-AOC10-2013-102	1	406691.7265	520156.1424	17.6	1858.226107	32704.78
10	B10-3	1	406526.65	520111.54	2.5	4834.788821	12086.97
SUM						**22645.56**	**210993054.92**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**9317**
SITE-SPECIFIC IGWSRS (MG/KG)							**14200**

TABLE E-16
ZINC CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-ZN-02							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**ZN MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**ZN WEIGHTED CONCENTRATION**
1	B8-4	1	406531.72	520234.75	22000	3085.652346	67884351.60
2	SB-AOC10-2013-103	1	406578.5105	520232.4091	6730	1531.140289	10304574.14
3	SB-AOC8B-2013-105	1	406450.077	520243.585	4280	2287.404799	9790092.54
4	SB-10-SO-208	1	406535.14	520199.52	1550	954.6306849	1479677.56
5	SB-AOC8B-2013-102	1	406493.8776	520187.0451	310	1912.430336	592853.40
6	SB-AOC8B-2013-108	1	406529.661	520298.4095	83.7	2624.555602	219675.30
SUM						**12395.81**	**90271224.55**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**7282**
SITE-SPECIFIC IGWSRS (MG/KG)							**14200**

TABLE E-16
ZINC CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-ZN-03							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**ZN MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**ZN WEIGHTED CONCENTRATION**
1	SB-AOC8B-2013-104	1	406374.667	520269.9895	20100	2983.777241	59973922.54
2	SB-8-SO-11	1	406389.65	520297.54	13000	2462.612355	32013960.62
3	B8-6	2	406408.23	520267.55	6400	2232.589322	14288571.66
4	B8-8-3	1	406352.656	520231.287	236	2582.890539	609562.17
SUM						**10261.87**	**106886016.98**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**10416**
SITE-SPECIFIC IGWSRS (MG/KG)							**14200**

TABLE E-17
LEAD CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-PB-01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**PB MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**PB WEIGHTED CONCENTRATION**
1	B8-2	2	406554.28	520160.57	670	4422.69	2963204.50
2	SB-10-SO-10-101	3	406628.4	520177.718	462	967.83	447135.35
3	SB-AOC8B-2013-101	3	406475.4329	520136.9664	457	2940.82	1343956.74
4	SB-10-SO-9	4	406691.65	520260.54	420	1091.77	458543.92
5	SB-10-SO-10-102	4	406629.35	520170.326	410	794.62	325792.37
6	SB-10-SO-10-103	3	406621.16	520171.23	362	587.82	212791.32
7	SB-AOC10-2013-101	2	406591.4378	520185.9081	312	3356.21	1047138.10
8	B10-3	1	406526.65	520111.54	290	3940.77	1142821.96
9	SB-AOC10-2013-108	3	406713.6501	520248.9376	239	849.46	203019.76
10	SB-AOC10-2013-100	1	406622.5397	520142.4698	174	1170.59	203682.45
11	SB-AOC10-2013-109	2	406707.193	520202.8608	134	1999.69	267958.94
12	SB-10-SO-10	3	406625.65	520173.54	95	40.19	3818.08
13	SB-AOC10-2013-104	2	406646.4311	520215.6927	52.3	3696.22	193312.11
14	MW-75	1	406675.3	520260.88	11.7	2092.82	24485.98
15	JSO22	1	406455.203	520111.311	10.4	1810.87	18833.07
SUM						**29762.36**	**8856494.68**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**298**
SITE-SPECIFIC IGWSRS (MG/KG)							**328**

TABLE E-17
LEAD CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-PB-02							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**PB MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**PB WEIGHTED CONCENTRATION**
1	SB-AOC10-2013-106	2	406617.39	520307.06	1400	1633.300983	2286621.38
2	B8-3	2	406591.48	520327.19	260	2669.926644	694180.93
3	B9-19	1	406628.27	520319.05	250	709.6805534	177420.14
4	SB-AOC10-2013-103	2	406578.51	520232.41	139	1464.161891	203518.50
5	SB-AOC8B-2013-108	2	406529.66	520298.41	70.7	2074.241988	146648.91
6	SB-AOC10-2013-105	2	406615.65	520258.68	63.6	1828.988277	116323.65
SUM						**10380.30**	**3624713.51**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**349**
SITE-SPECIFIC IGWSRS (MG/KG)							**328**

TABLE E-17
LEAD CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-PB-04							
RANK	LOCATION	SAMPLE COUNT	X-COORDINATE	Y-COORDINATE	PB MAXIMUM CONCENTRATION (MG/KG)	POLYGON AREA (SQ. FT)	PB WEIGHTED CONCENTRATION
1	B8-8-2-101	4	406332.18	520200.92	2070	805.22	1666812.62
2	SB-8-SO-14-101	3	406353.72	520201.35	1230	546.61	672324.50
3	SB-8-SO-14-100	1	406352.65	520196.54	4770	365.88	1745229.76
4	B8-8	2	406341.67	520187.92	860	217.10	186701.77
5	B8-8-4-102	4	406386.12	520175.44	686	1169.11	802009.78
6	B8-8-1	3	406334.29	520181.06	577	41.98	24221.74
7	B8-8-1-102	4	406329.67	520178.08	284	512.67	145597.64
8	B8-8-2-102	4	406337.76	520208.72	132	520.75	68738.53
9	B8-8-1-101	4	406338.41	520177.03	130	597.79	77713.12
10	SB-AOC8B-2013-100	3	406329.61	520147.93	100	1252.87	125287.29
11	B8-8-4	2	406387.23	520180.30	89.3	57.97	5176.34
12	B8-8-3	1	406352.66	520231.29	77.3	903.25	69820.95
13	B8-8-2	2	406336.69	520203.90	76.8	90.71	6966.82
14	B8-8-4-103	3	406386.20	520186.41	41.1	568.66	23372.01
15	B8-8-4-101	3	406392.23	520178.95	40.9	378.59	15484.15
16	B8-8-1-103	3	406331.51	520185.78	38.6	320.18	12358.78
SUM						**8349.32**	**5647815.78**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**676**
SITE-SPECIFIC IGWSRS (MG/KG)							**328**

TABLE E-17
LEAD CONCENTRATIONS IN THE SURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SURF-PB-05							
RANK	LOCATION	SAMPLE COUNT	X-COORDINATE	Y-COORDINATE	PB MAXIMUM CONCENTRATION (MG/KG)	POLYGON AREA (SQ. FT)	PB WEIGHTED CONCENTRATION
1	B8-6-103	3	406403.54	520264.95	7510	787.16	5911541.34
2	JSO11-101	3	406363.10	520283.01	1290	183.05	236134.96
3	SB-8-SO-11-102	3	406385.90	520300.92	1110	825.64	916464.89
4	SB-8-SO-11-103	3	406394.04	520299.93	436	1171.58	510808.91
5	B8-6-101	3	406411.05	520271.71	336	1251.84	420618.61
6	SB-8-SO-11-100	3	406389.65	520297.54	321	35.21	11301.20
7	SB-AOC8B-2013-104	2	406374.67	520269.99	276	809.15	223325.90
8	JSO11-103	3	406353.73	520286.51	218	226.44	49363.46
9	B8-6-102	3	406412.28	520263.90	136	633.23	86118.89
10	JSO11	1	406358.48	520284.97	127	35.66	4529.28
11	JSO11-102	2	406356.45	520280.32	103	84.18	8670.40
12	SB-AOC8B-2013-107	2	406461.79	520327.38	97.2	2857.66	277764.37
13	JSO12	1	406361.48	520293.37	79.8	990.19	79017.24
14	SB-AOC8B-2013-106	2	406401.68	520353.45	73.3	2131.89	156267.59
15	SB-8-SO-11-101	2	406388.00	520292.67	64.3	362.53	23310.40
16	B8-6	1	406408.23	520267.55	11	46.36	509.95
SUM						**12431.76**	**8915747.38**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**717**
SITE-SPECIFIC IGWSRS (MG/KG)							**328**

TABLE E-18
LEAD CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-PB-01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**PB MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**PB WEIGHTED CONCENTRATION**
1	SB-10-SO-10	1	406625.65	520173.54	830	303.5425038	251940.2781
2	SB-10-SO-209	1	406649.4923	520210.8116	769	1039.297	799219.3927
3	SB-10-SO-10-101	1	406628.4	520177.718	712	1143.297063	814027.5088
4	SB-10-SO-10-103	1	406621.16	520171.23	468	618.8453952	289619.645
5	SB-AOC10-2013-100	1	406622.5397	520142.4698	237	1024.396304	242781.9242
6	SB-10-SO-11	2	406646.65	520124.54	140	1321.767611	185047.4655
7	SB-10-SO-210	1	406642.2702	520212.8033	29.6	920.1754766	27237.19411
8	SB-AOC10-2013-101	1	406591.4378	520185.9081	11.0	891.5085313	9806.593844
9	SB-AOC10-2013-102	1	406691.7265	520156.1424	3.4	1498.985152	5096.549518
SUM						**8761.82**	**2624776.55**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**300**
SITE-SPECIFIC IGWSRS (MG/KG)							**328**

TABLE E-18
LEAD CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-PB-02							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**PB MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**PB WEIGHTED CONCENTRATION**
1	SB-10-SO-5A	2	406859.7	520524.59	3900	109.2743716	426170.0493
2	SB-10-SO-5-103	1	406848.87	520537.39	234	165.8768158	38815.1749
3	SB-10-SO-5-101	1	406850.39	520544.844	112	1191.245628	133419.5104
4	SB-10-SO-5-102	1	406857.76	520542.801	81.9	208.4340719	17070.75049
5	SB-10-SO-5-100	1	406852.7	520540.59	333.0	49.4240275	16458.20116
6	SB-10-SO-5A-102	1	406864.62	520526.833	21.1	587.4230616	12394.6266
7	SB-10-SO-5A-101	1	406855.73	520521.422	10.3	400.2974513	4123.063748
SUM						**2711.98**	**648451.38**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**239**
SITE-SPECIFIC IGWSRS (MG/KG)							**328**

TABLE E-18
LEAD CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-PB-03							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**PB MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**PB WEIGHTED CONCENTRATION**
1	B8-4-100	1	406545.18	520223.83	1810	665.33	1204244.98
2	B8-4-102	1	406551.36	520246.07	1010	774.28	782026.98
3	B8-4	1	406531.72	520234.75	800	312.63	250104.99
4	B8-4-101	1	406525.31	520242.60	331	1585.66	524854.48
5	SB-AOC8B-2013-105	1	406450.08	520243.59	268	2381.31	638191.58
6	SB-8-SO-12-101	1	406521.28	520211.50	205	1093.34	224135.36
7	SB-AOC10-2013-103	1	406578.51	520232.41	188	481.33	90489.84
8	B8-4-103	1	406537.24	520249.32	126	717.18	90364.94
9	SB-AOC8B-2013-102	1	406493.88	520187.05	110	1698.00	186780.46
10	SB-AOC8B-2013-108	1	406529.66	520298.41	35.3	1719.55	60700.17
11	SB-10-SO-208	1	406535.14	520199.52	21.3	446.98	9520.75
SUM						**11875.61**	**4061414.52**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**342**
SITE-SPECIFIC IGWSRS (MG/KG)							**328**

TABLE E-18
LEAD CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-PB-04							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**PB MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**PB WEIGHTED CONCENTRATION**
1	SB-8-SO-14-101	1	406353.72	520201.35	719	752.20	540832.21
2	B8-8-4	1	406387.23	520180.30	53.4	2168.54	115799.95
3	B8-8-3	1	406352.66	520231.29	48.2	1167.47	56272.03
4	SB-AOC8B-2013-109	1	406393.92	520215.20	45.7	1109.30	50695.23
5	B8-8-2	1	406336.69	520203.90	23.0	593.26	13644.91
6	B8-8-4-103	1	406386.20	520186.41	14.3	743.35	10629.88
7	B8-8	1	406341.67	520187.92	1.2	676.86	812.23
SUM						**7210.98**	**788686.45**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**109**
SITE-SPECIFIC IGWSRS (MG/KG)							**328**

TABLE E-18
LEAD CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-PB-05							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**PB MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**PB WEIGHTED CONCENTRATION**
1	SB-8-SO-11	1	406389.65	520297.54	4300	2772.43	11921451.50
2	JSO11-101	1	406363.10	520283.01	526	3011.65	1584128.81
3	SB-AOC8B-2013-104	1	406374.67	520269.99	366	1279.63	468345.59
4	SB-AOC8B-2013-107	1	406461.79	520327.38	67.5	2141.53	144553.01
5	SB-AOC8B-2013-106	1	406401.68	520353.45	27.8	4856.32	135005.69
6	B8-5	1	406298.36	520322.61	13.0	2337.25	30384.22
SUM						**16398.81**	**14283868.82**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**871**
SITE-SPECIFIC IGWSRS (MG/KG)							**328**

TABLE E-18
LEAD CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-PB-06							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**PB MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**PB WEIGHTED CONCENTRATION**
1	SB-10-SO-2	2	406939.65	520727.54	1200	36.77	44122.77
2	SB-10-SO-2-101	2	406936.68	520731.71	14.0	368.03	5152.49
3	SB-10-SO-2-103	2	406936.22	520722.85	9.5	365.44	3471.66
4	SB-10-SO-2-102	2	406944.52	520726.96	8.1	123.02	996.48
5	SB-AOC10-2013-127	1	406917.01	520735.20	6.9	903.53	6234.37
6	SB-AOC10-2013-129	1	406954.52	520718.01	4.3	915.20	3935.36
SUM						**2712.00**	**63913.13**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**24**
SITE-SPECIFIC IGWSRS (MG/KG)							**328**

TABLE E-18
LEAD CONCENTRATIONS IN THE SUBSURFACE ZONE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

FUNCTIONAL AREA: SUB-PB-07							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE**	**Y-COORDINATE**	**PB MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**PB WEIGHTED CONCENTRATION**
1	B8-6	1	406408.23	520267.55	1200	1870.25	2244301.65
2	SB-AOC8B-2013-103	1	406436.51	520208.36	10	2765.30	28206.05
SUM						**4635.55**	**2272507.69**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**490**
SITE-SPECIFIC IGWSRS (MG/KG)							**328**

IGW Mean

Subsurface Nickel
Functional Area - SUB-NI-01
Mean

RANK	LOCATION	SAMPLE COUNT	X-COORDINATE	Y-COORDINATE	NI CONCENTRATION (MG/KG)
1	SB-AOC8B-2013-104	1	406374.667	520269.9895	33900
2	SB-8-SO-11	1	406389.65	520297.54	640
3	B8-6	2	406408.23	520267.55	100
	B8-6		406408.23	520267.55	33
4	B8-8-3	1	406352.656	520231.287	26.20000076
MEAN CONCENTRATION (MG/KG)					**6940**
SITE-SPECIFIC IGWSRS (MG/KG)					**9200**

IGW 95 UCL

Surface Chromium
Functional Area - SURF-CR-07
95 UCL Input Data

sys_loc_co	sample_na	sample_tin	sample_da	start_depth	end_depth	depth_unit	depth	matrix_cod	analytic_m	analysis_da	chemical_r	report_resu	report_resu	result_num	report_resu	d_report_r	detect_flag	x_coord	y_coord
SB-7-SO-3	SB-7-SO-3	23:59:00	02/10/1994	0	2	ft	0 - 2 (ft)	SO	MET	2/10/1994	Chromium	180	180	180	mg/kg	1	Y	405852.7	520441
SB-7-SO-3	SB-7-SO-3	23:59:00	02/10/1994	2	4	ft	2 - 4 (ft)	SO	MET	2/10/1994	Chromium	27	27	27	mg/kg	1	Y	405852.7	520441
SB-7-SO-3	SB-7-SO-3	23:59:00	02/10/1994	4	6	ft	4 - 6 (ft)	SO	MET	2/10/1994	Chromium	190	190	190	mg/kg	1	Y	405852.7	520441
SB-7-SO-3	SB-7-SO-3	23:59:00	02/10/1994	6	8	ft	6 - 8 (ft)	SO	MET	2/10/1994	Chromium	870	870	870	mg/kg	1	Y	405852.7	520441
SB-7-SO-3	SB-7-SO-3	23:59:00	02/10/1994	8	10	ft	8 - 10 (ft)	SO	MET	2/10/1994	Chromium	900	900	900	mg/kg	1	Y	405852.7	520441
SB-7-SO-4	SB-7-SO-4	23:59:00	02/10/1994	0	2	ft	0 - 2 (ft)	SO	MET	2/10/1994	Chromium	2000	2000	2000	mg/kg	1	Y	405917.7	520421
SB-7-SO-4	SB-7-SO-4	23:59:00	02/10/1994	2	4	ft	2 - 4 (ft)	SO	MET	2/10/1994	Chromium	6600	6600	6600	mg/kg	1	Y	405917.7	520421
SB-7-SO-4	SB-7-SO-4	23:59:00	02/10/1994	4	6	ft	4 - 6 (ft)	SO	MET	2/10/1994	Chromium	500	500	500	mg/kg	1	Y	405917.7	520421
SB-7-SO-4	SB-7-SO-4	23:59:00	02/10/1994	6	8	ft	6 - 8 (ft)	SO	MET	2/10/1994	Chromium	220	220	220	mg/kg	1	Y	405917.7	520421
SB-7-SO-4	SB-7-SO-4	23:59:00	02/10/1994	8	10	ft	8 - 10 (ft)	SO	MET	2/10/1994	Chromium	160	160	160	mg/kg	1	Y	405917.7	520421
SB-7-SO-5	SB-7-SO-5	23:59:00	02/10/1994	2	4	ft	2 - 4 (ft)	SO	MET	2/10/1994	Chromium	430	430	430	mg/kg	1	Y	405866.7	520375.5
SB-7-SO-5	SB-7-SO-5	23:59:00	02/10/1994	4	6	ft	4 - 6 (ft)	SO	MET	2/10/1994	Chromium	640	640	640	mg/kg	1	Y	405866.7	520375.5
SB-7-SO-5	SB-7-SO-5	23:59:00	02/10/1994	8	10	ft	8 - 10 (ft)	SO	MET	2/10/1994	Chromium	480	480	480	mg/kg	1	Y	405866.7	520375.5
SB-7-SO-5	SB-7-SO-5	23:59:00	02/10/1994	10	12	ft	10 - 12 (ft)	SO	MET	2/10/1994	Chromium	18	18	18	mg/kg	1	Y	405866.7	520375.5
SB-7-SO-6	SB-7-SO-6	23:59:00	02/10/1994	2	4	ft	2 - 4 (ft)	SO	MET	2/10/1994	Chromium	2700	2700	2700	mg/kg	1	Y	405828.4	520387.7
SB-7-SO-6	SB-7-SO-6	23:59:00	02/10/1994	4	6	ft	4 - 6 (ft)	SO	MET	2/10/1994	Chromium	44	44	44	mg/kg	1	Y	405828.4	520387.7
SB-7-SO-6	SB-7-SO-6	23:59:00	02/10/1994	6	8	ft	6 - 8 (ft)	SO	MET	2/10/1994	Chromium	26	26	26	mg/kg	1	Y	405828.4	520387.7
SB-7-SO-6	SB-7-SO-6	23:59:00	02/10/1994	8	10	ft	8 - 10 (ft)	SO	MET	2/10/1994	Chromium	28	28	28	mg/kg	1	Y	405828.4	520387.7
TP7-3	05661001C	10:50:00	01/10/2008	0	0.5	ft	0 - 0.5 (ft)	SO	SW6010	1/24/2008	Chromium	98.2	98.2	98.2	mg/kg	1	Y	405806.9	520426.1
TP7-3	05661001C	11:15:00	01/10/2008	9.5	10	ft	9.5 - 10 (ft	SO	SW6010	1/24/2008	Chromium	977	977	977	mg/kg	1	Y	405806.9	520426.1
TP7-4	05661001C	11:45:00	01/10/2008	0	0.5	ft	0 - 0.5 (ft)	SO	SW6010	1/24/2008	Chromium	485	485	485	mg/kg	1	Y	405848.1	520395.3
TP7-4	05661001C	12:00:00	01/10/2008	9.5	10	ft	9.5 - 10 (ft	SO	SW6010	1/24/2008	Chromium	18.3	18.3	18.3	mg/kg	1	Y	405848.1	520395.3
TP7-5	05661001C	13:20:00	01/10/2008	10	10.5	ft	10 - 10.5 (	SO	SW6010	1/24/2008	Chromium	327	327	327	mg/kg	1	Y	405803.3	520389.4
ISO11	70613012J	11:25:00	09/25/2002	0.5	1	ft	0.5 - 1 (ft)	SO	SW6010	10/1/2002	Chromium	112	112	112	mg/kg	1	Y	405932.8	520465.9
ISO11	70613012J	11:40:00	09/25/2002	4	4.5	ft	4 - 4.5 (ft)	SO	SW6010	10/1/2002	Chromium	94.8	94.8	94.8	mg/kg	1	Y	405932.8	520465.9
B7-1	B7-1	23:59:00	07/07/1998	0	0.5	ft	0 - 0.5 (ft)	SO	SW6010	7/15/1998	Chromium	37	37	37	mg/kg	1	Y	405835.3	520416.3
B7-5	B7-5	23:59:00	07/10/1998	2.5	3	ft	2.5 - 3 (ft)	SO	SW6010	7/27/1998	Chromium,	26	26	26	mg/kg	1	Y	405925.7	520489.9
B7-5	B7-5	23:59:00	07/10/1998	8	8.5	ft	8 - 8.5 (ft)	SO	SW6010	7/27/1998	Chromium,	47	47	47	mg/kg	1	Y	405925.7	520489.9
B7-5	B7-5	23:59:00	07/10/1998	12	12.5	ft	12 - 12.5 (	SO	SW6010	7/27/1998	Chromium,	29	29	29	mg/kg	1	Y	405925.7	520489.9

1	**UCL Statistics for Uncensored Full Data Sets**											
2												
3			User Selected Options									
4			Date/Time of Computation	ProUCL 5.110/13/2017 1:12:08 PM								
5			From File	UCL_SURF-CR-07_IN.xls								
6			Full Precision	OFF								
7			Confidence Coefficient	95%								
8			Number of Bootstrap Operations	2000								
9												
10												
11	**report_result_value**											
12												
13	**General Statistics**											
14						Total Number of Observations	29			Number of Distinct Observations	28		
15										Number of Missing Observations	0	
16						Minimum	18			Mean	629.8	
17						Maximum	6600			Median	180	
18						SD	1302			Std. Error of Mean	241.8	
19						Coefficient of Variation	2.067			Skewness	3.846	
20												
21	**Normal GOF Test**											
22						Shapiro Wilk Test Statistic	0.5			**Shapiro Wilk GOF Test**		
23						5% Shapiro Wilk Critical Value	0.926			Data Not Normal at 5% Significance Level		
24						Lilliefors Test Statistic	0.319			**Lilliefors GOF Test**		
25						5% Lilliefors Critical Value	0.161			Data Not Normal at 5% Significance Level		
26	**Data Not Normal at 5% Significance Level**											
27												
28	**Assuming Normal Distribution**											
29						**95% Normal UCL**				**95% UCLs (Adjusted for Skewness)**		
30						95% Student's-t UCL	1041			95% Adjusted-CLT UCL (Chen-1995)	1212	
31										95% Modified-t UCL (Johnson-1978)	1070	
32												
33	**Gamma GOF Test**											
34						A-D Test Statistic	1.129			**Anderson-Darling Gamma GOF Test**		
35						5% A-D Critical Value	0.812			Data Not Gamma Distributed at 5% Significance Level		
36						K-S Test Statistic	0.14			**Kolmogorov-Smirnov Gamma GOF Test**		
37						5% K-S Critical Value	0.172			Detected data appear Gamma Distributed at 5% Significance Level		
38	**Detected data follow Appr. Gamma Distribution at 5% Significance Level**											
39												
40	**Gamma Statistics**											
41						k hat (MLE)	0.499			k star (bias corrected MLE)	0.47	
42						Theta hat (MLE)	1263			Theta star (bias corrected MLE)	1340	
43						nu hat (MLE)	28.92			nu star (bias corrected)	27.26	
44						MLE Mean (bias corrected)	629.8			MLE Sd (bias corrected)	918.6	
45										Approximate Chi Square Value (0.05)	16.35	
46						Adjusted Level of Significance	0.0407			Adjusted Chi Square Value	15.85	
47												
48	**Assuming Gamma Distribution**											
49						95% Approximate Gamma UCL (use when n>=50)	1050			95% Adjusted Gamma UCL (use when n<50)	1083	
50												
51	**Lognormal GOF Test**											

52					Shapiro Wilk Test Statistic	0.944	**Shapiro Wilk Lognormal GOF Test**					
53					5% Shapiro Wilk Critical Value	0.926	Data appear Lognormal at 5% Significance Level					
54					Lilliefors Test Statistic	0.134	**Lilliefors Lognormal GOF Test**					
55					5% Lilliefors Critical Value	0.161	Data appear Lognormal at 5% Significance Level					
56	**Data appear Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59					Minimum of Logged Data	2.89				Mean of logged Data		5.171
60					Maximum of Logged Data	8.795				SD of logged Data		1.642
61												
62	**Assuming Lognormal Distribution**											
63					95% H-UCL	1922				90% Chebyshev (MVUE) UCL		1337
64					95% Chebyshev (MVUE) UCL	1664				97.5% Chebyshev (MVUE) UCL		2118
65					99% Chebyshev (MVUE) UCL	3010						
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
69												
70	**Nonparametric Distribution Free UCLs**											
71					95% CLT UCL	1028				95% Jackknife UCL		1041
72					95% Standard Bootstrap UCL	1013				95% Bootstrap-t UCL		1753
73					95% Hall's Bootstrap UCL	2467				95% Percentile Bootstrap UCL		1079
74					95% BCA Bootstrap UCL	1300						
75					90% Chebyshev(Mean, Sd) UCL	1355				95% Chebyshev(Mean, Sd) UCL		1684
76					97.5% Chebyshev(Mean, Sd) UCL	2140				99% Chebyshev(Mean, Sd) UCL		3036
77												
78	**Suggested UCL to Use**											
79					95% Adjusted Gamma UCL	1083						
80												
81	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
82	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
83												
84	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
85	Recommendations are based upon data size, data distribution, and skewness.											
86	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
87	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
88												

Surface Zinc
Functional Area - SURF_ZN_02
95 UCL Input

sys_loc_code	sample_na	sample_tin	sample_da	start_depth	end_depth	depth_unit	depth	matrix_cod	analytic_m	analysis_dat	chemical_r	report_resu	report_resu	result_num	report_resu	d_report_r	detect_flag	x_coord	y_coord
SB-AOC10-2013-110	0908-0222	11:00:00	02/22/201	0	0.5	ft	0 - 0.5 (ft)	SO	SW6010B	2/28/2013	Zinc	1030	1030	1030	mg/kg	1	Y	406722.8	520328.7
SB-AOC10-2013-110	0908-0222	11:05:00	02/22/201	4.5	5	ft	4.5 - 5 (ft)	SO	SW6010B	2/28/2013	Zinc	145	145	145	mg/kg	1	Y	406722.8	520328.7
SB-AOC10-2013-112	0908-0222	09:45:00	02/22/201	0	0.5	ft	0 - 0.5 (ft)	SO	SW6010B	2/28/2013	Zinc	121	121	121	mg/kg	1	Y	406773.1	520353
SB-AOC10-2013-112	0908-0222	09:50:00	02/22/201	4.5	5	ft	4.5 - 5 (ft)	SO	SW6010B	2/28/2013	Zinc	8180	8180	8180	mg/kg	1	Y	406773.1	520353
SB-AOC10-2013-113	0908-0222	09:15:00	02/22/201	0	0.5	ft	0 - 0.5 (ft)	SO	SW6010B	2/28/2013	Zinc	824	824	824	mg/kg	1	Y	406729.5	520376.7
SB-AOC10-2013-113	0908-0222	09:20:00	02/22/201	4.5	5	ft	4.5 - 5 (ft)	SO	SW6010B	2/28/2013	Zinc	2540	2540	2540	mg/kg	1	Y	406729.5	520376.7
SB-AOC10-2013-114	0908-0222	08:50:00	02/22/201	0	0.5	ft	0 - 0.5 (ft)	SO	SW6010B	2/28/2013	Zinc	286	286	286	mg/kg	1	Y	406774.3	520389.3
SB-AOC10-2013-114	0908-0222	08:55:00	02/22/201	4.5	5	ft	4.5 - 5 (ft)	SO	SW6010B	2/28/2013	Zinc	45.3	45.3	45.3	mg/kg	1	Y	406774.3	520389.3
SB-AOC10-2013-115	0908-0221	15:50:00	02/21/201	0	0.5	ft	0 - 0.5 (ft)	SO	SW6010B	3/1/2013	Zinc	7330	7330	7330	mg/kg	1	Y	406806.8	520386.9
SB-AOC10-2013-115	0908-0221	15:55:00	02/21/201	4.5	5	ft	4.5 - 5 (ft)	SO	SW6010B	3/1/2013	Zinc	40700	40700	40700	mg/kg	1	Y	406806.8	520386.9
SB-AOC10-2013-116	0908-0221	15:20:00	02/21/201	0	0.5	ft	0 - 0.5 (ft)	SO	SW6010B	2/28/2013	Zinc	60700	60700	60700	mg/kg	1	Y	406753	520429.6
SB-AOC10-2013-116	0908-0221	15:25:00	02/21/201	4.5	5	ft	4.5 - 5 (ft)	SO	SW6010B	2/27/2013	Zinc	3350	3350	3350	mg/kg	1	Y	406753	520429.6
SB-AOC10-2013-118	0908-0221	14:30:00	02/21/201	0	0.5	ft	0 - 0.5 (ft)	SO	SW6010B	2/27/2013	Zinc	3560	3560	3560	mg/kg	1	Y	406836.1	520467.1
SB-AOC10-2013-118	0908-0221	14:35:00	02/21/201	4	4.5	ft	4 - 4.5 (ft)	SO	SW6010B	2/27/2013	Zinc	3540	3540	3540	mg/kg	1	Y	406836.1	520467.1
HSO12	70613012J	10:15:00	09/24/200	0	0.5	ft	0 - 0.5 (ft)	SO	SW6010	10/4/2002	Zinc	28100	28100	28100	mg/kg	1	Y	406719.9	520384.4
SB-10-SO-7-100	2334-0119	12:35:00	01/19/201	0	0.5	ft	0 - 0.5 (ft)	SO	SW6020	1/26/2011	Zinc	6600	6600	6600	mg/kg	1	Y	406779.7	520374.5
SB-10-SO-7-100	2334-0119	12:40:00	01/19/201	1	1.5	ft	1 - 1.5 (ft)	SO	SW6020	1/26/2011	Zinc	454	454	454	mg/kg	1	Y	406779.7	520374.5
SB-10-SO-7-100	2334-0119	12:45:00	01/19/201	4.5	5	ft	4.5 - 5 (ft)	SO	SW6020	1/26/2011	Zinc	177	177	177	mg/kg	1	Y	406779.7	520374.5
SB-10-SO-7-101	2334-0119	13:00:00	01/19/201	0	0.5	ft	0 - 0.5 (ft)	SO	SW6020	1/26/2011	Zinc	4170	4170	4170	mg/kg	1	Y	406783.6	520371
SB-10-SO-7-101	2334-0119	13:05:00	01/19/201	1	1.5	ft	1 - 1.5 (ft)	SO	SW6020	1/26/2011	Zinc	41.5	41.5	41.5	mg/kg	1	Y	406783.6	520371
SB-10-SO-7-101	2334-0119	13:10:00	01/19/201	4.5	5	ft	4.5 - 5 (ft)	SO	SW6020	1/26/2011	Zinc	225	225	225	mg/kg	1	Y	406783.6	520371
SB-10-SO-7-102	2334-0119	13:20:00	01/19/201	0	0.5	ft	0 - 0.5 (ft)	SO	SW6020	2/1/2011	Zinc	9520	9520	9520	mg/kg	1	Y	406774.8	520372
SB-10-SO-7-102	2334-0119	13:25:00	01/19/201	1	1.5	ft	1 - 1.5 (ft)	SO	SW6020	1/26/2011	Zinc	145	145	145	mg/kg	1	Y	406774.8	520372
SB-10-SO-7-102	2334-0119	13:30:00	01/19/201	4.5	5	ft	4.5 - 5 (ft)	SO	SW6020	1/26/2011	Zinc	421	421	421	mg/kg	1	Y	406774.8	520372
SB-10-SO-7-103	2334-0119	14:05:00	01/19/201	0	0.5	ft	0 - 0.5 (ft)	SO	SW6020	1/26/2011	Zinc	1570	1570	1570	mg/kg	1	Y	406782.3	520378.8
SB-10-SO-7-103	2334-0119	14:10:00	01/19/201	1	1.5	ft	1 - 1.5 (ft)	SO	SW6020	1/25/2011	Zinc	347	347	347	mg/kg	1	Y	406782.3	520378.8
SB-10-SO-7-103	2334-0119	14:15:00	01/19/201	4.5	5	ft	4.5 - 5 (ft)	SO	SW6020	1/25/2011	Zinc	188	188	188	mg/kg	1	Y	406782.3	520378.8
SB-10-SO-7-103	2334-0119	14:20:00	01/19/201	5.5	6	ft	5.5 - 6 (ft)	SO	SW6020	2/1/2011	Zinc	11400	11400	11400	mg/kg	1	Y	406782.3	520378.8
WSO1	70613012J	03:35:00	10/02/200	0	0.5	ft	0 - 0.5 (ft)	SO	SW6010	10/10/2002	Zinc	1830	1830	1830	mg/kg	1	Y	406694	520301.7
B9-16	B9-16	23:59:00	07/17/199	0	0.5	ft	0 - 0.5 (ft)	SO	SW6010	8/3/1998	Zinc	550	550	550	mg/kg	1	Y	406655.6	520380.4
B9-16-200	2351-0425	11:20:00	04/25/201	0	0.5	ft	0 - 0.5 (ft)	SO	SW6020	4/28/2012	Zinc	23.6	23.6	23.6	mg/kg	1	Y	406651.8	520384.5
B9-16-200	2351-0425	11:40:00	04/25/201	5	5.5	ft	5 - 5.5 (ft)	SO	SW6020	4/28/2012	Zinc	35.5	35.5	35.5	mg/kg	1	Y	406651.8	520384.5

Surface Zinc
Functional Area - SURF_ZN_02
95 UCL Output

	A	B	C	D	E	F	G	H	I	J	K	L
1	**UCL Statistics for Uncensored Full Data Sets**											
2												
3				User Selected Options								
4				Date/Time of Computation	ProUCL 5.110/16/2017 11:00:38 AM							
5				From File	UCL_SURF-ZN-02_IN.xls							
6				Full Precision	OFF							
7				Confidence Coefficient	95%							
8				Number of Bootstrap Operations	2000							
9												
10												
11	**report_result_value**											
12												
13	**General Statistics**											
14						Total Number of Observations	32			Number of Distinct Observations	31		
15										Number of Missing Observations	0	
16						Minimum	23.6			Mean	6192	
17						Maximum	60700			Median	927	
18						SD	13146			Std. Error of Mean	2324	
19						Coefficient of Variation	2.123			Skewness	3.18	
20												
21	**Normal GOF Test**											
22						Shapiro Wilk Test Statistic	0.521		**Shapiro Wilk GOF Test**			
23						5% Shapiro Wilk Critical Value	0.93		Data Not Normal at 5% Significance Level			
24						Lilliefors Test Statistic	0.319		**Lilliefors GOF Test**			
25						5% Lilliefors Critical Value	0.154		Data Not Normal at 5% Significance Level			
26	**Data Not Normal at 5% Significance Level**											
27												
28	**Assuming Normal Distribution**											
29	**95% Normal UCL**								**95% UCLs (Adjusted for Skewness)**			
30						95% Student's-t UCL	10132			95% Adjusted-CLT UCL (Chen-1995)	11410	
31										95% Modified-t UCL (Johnson-1978)	10350	
32												
33	**Gamma GOF Test**											
34						A-D Test Statistic	1.072		**Anderson-Darling Gamma GOF Test**			
35						5% A-D Critical Value	0.84		Data Not Gamma Distributed at 5% Significance Level			
36						K-S Test Statistic	0.151		**Kolmogorov-Smirnov Gamma GOF Test**			
37						5% K-S Critical Value	0.167		Detected data appear Gamma Distributed at 5% Significance Level			
38	**Detected data follow Appr. Gamma Distribution at 5% Significance Level**											
39												
40	**Gamma Statistics**											
41						k hat (MLE)	0.366			k star (bias corrected MLE)	0.353	
42						Theta hat (MLE)	16909			Theta star (bias corrected MLE)	17556	
43						nu hat (MLE)	23.44			nu star (bias corrected)	22.57	
44						MLE Mean (bias corrected)	6192			MLE Sd (bias corrected)	10426	
45										Approximate Chi Square Value (0.05)	12.77	
46						Adjusted Level of Significance	0.0416			Adjusted Chi Square Value	12.37	
47												
48	**Assuming Gamma Distribution**											
49						95% Approximate Gamma UCL (use when n>=50)	10947			95% Adjusted Gamma UCL (use when n<50)	11296	
50												
51	**Lognormal GOF Test**											

Surface Zinc
Functional Area - SURF_ZN_02
95 UCL Output

	A	B	C	D	E	F	G	H	I	J	K	L
52	Shapiro Wilk Test Statistic					0.967	**Shapiro Wilk Lognormal GOF Test**					
53	5% Shapiro Wilk Critical Value					0.93	Data appear Lognormal at 5% Significance Level					
54	Lilliefors Test Statistic					0.0888	**Lilliefors Lognormal GOF Test**					
55	5% Lilliefors Critical Value					0.154	Data appear Lognormal at 5% Significance Level					
56	**Data appear Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59	Minimum of Logged Data					3.161	Mean of logged Data					6.908
60	Maximum of Logged Data					11.01	SD of logged Data					2.141
61												
62	**Assuming Lognormal Distribution**											
63	95% H-UCL					46941	90% Chebyshev (MVUE) UCL					20757
64	95% Chebyshev (MVUE) UCL					26489	97.5% Chebyshev (MVUE) UCL					34446
65	99% Chebyshev (MVUE) UCL					50075						
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
69												
70	**Nonparametric Distribution Free UCLs**											
71	95% CLT UCL					10015	95% Jackknife UCL					10132
72	95% Standard Bootstrap UCL					10053	95% Bootstrap-t UCL					16769
73	95% Hall's Bootstrap UCL					13577	95% Percentile Bootstrap UCL					10308
74	95% BCA Bootstrap UCL					11992						
75	90% Chebyshev(Mean, Sd) UCL					13164	95% Chebyshev(Mean, Sd) UCL					16322
76	97.5% Chebyshev(Mean, Sd) UCL					20705	99% Chebyshev(Mean, Sd) UCL					29315
77												
78	**Suggested UCL to Use**											
79	95% Adjusted Gamma UCL					11296						
80												
81	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
82	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
83												
84	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
85	Recommendations are based upon data size, data distribution, and skewness.											
86	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
87	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
88												

APPENDIX I

Investigation Derived Waste Weight Tickets and Backfill

CLEAN EARTH ACCEPTANCE LETTERS

Quafisi, Dimitri

From: Maria Goergen <mgoergen@cleanearthinc.com>
Sent: Tuesday, April 03, 2018 3:36 PM
To: Countz, Arthur; DeGrande, Jeremy; Karen Vivo Hartley; Satanek, Melanie; Paul, Forrest; Demas, David
Cc: Claret Tening Ndifet; Bob Sims; Quafisi, Dimitri; Dale Zimmermann
Subject: RE: RACER - Ewing/Former Delphi Trenton Facility - Approval# 183020035, Global# 148656

Good afternoon,

This is approved with the above referenced approval number and scheduled for 7x3 at 7:30am Wednesday.

We will have the drivers bring manifests with them and they can pick up some blank ones at the facility if necessary.

I can print out the rest and have them sent out.

Please advise how many you need and where to send them.

Thanks,

Maria Goergen
Client Solutions Representative

Please note my new extension is 1226

Clean Earth, Inc.
334 S. Warminster Road, Hatboro, PA 19040
T 877.445.DIRT | 215.734.1400 x 1226
Direct Fax 267.803.1781 | Fax 215.734.1417

From: Countz, Arthur [mailto:ACountz@haleyaldrich.com]
Sent: Tuesday, April 3, 2018 11:44 AM
To: Maria Goergen <mgoergen@cleanearthinc.com>; DeGrande, Jeremy <JDeGrande@haleyaldrich.com>; Karen Vivo Hartley <khartley@cleanearthinc.com>; Satanek, Melanie <MSatanek@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>; Dale Zimmermann <dzimmermann@cleanearthinc.com>
Subject: RE: RACER - Ewing

Maria, I am the site contact and my number is 470-554-2415
I would like to ship 21 loads tomorrow, at least 3 rounds per truck if that is possible, we can start loading at 7:30am. Also will one of your drivers be bringing the shipping manifest along with them?

If you have any questions please feel free to contact me

From: Maria Goergen <mgoergen@cleanearthinc.com>
Sent: Tuesday, April 03, 2018 10:23 AM
To: DeGrande, Jeremy <JDeGrande@haleyaldrich.com>; Karen Vivo Hartley <khartley@cleanearthinc.com>; Satanek, Melanie <MSatanek@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>

Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>; Dale Zimmermann <dzimmermann@cleanearthinc.com>
Subject: RE: RACER - Ewing

Jeremy,

How many loads are you looking to ship tomorrow?

Please also confirm what time you would like the trucks on site along with a site contact and phone number.

Thank you,

Maria Goergen
Client Solutions Representative

Please note my new extension is 1226

Clean Earth, Inc.
334 S. Warminster Road, Hatboro, PA 19040
T 877.445.DIRT | 215.734.1400 x 1226
Direct Fax 267.803.1781 | Fax 215.734.1417

From: DeGrande, Jeremy [mailto:JDeGrande@haleyaldrich.com]
Sent: Tuesday, April 3, 2018 9:42 AM
To: Karen Vivo Hartley <khartley@cleanearthinc.com>; Satanek, Melanie <MSatanek@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>; Maria Goergen <mgoergen@cleanearthinc.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>
Subject: RE: RACER - Ewing

Maria I got Bob's out of office. Please see the email thread below and let me know if you can assist?

Thanks

Jeremy DeGrande, CHMM, CSP
Program Manager - Construction
Haley & Aldrich Construction Services
598 Byrne Industrial Drive
Rockford, MI 49341
O: 616.951.6233
C: 734.968.9101
F: 734.769.1237

jdegrande@haleyaldrich.com

www.haleyaldrich.com



From: DeGrande, Jeremy
Sent: Tuesday, April 03, 2018 9:37 AM

To: 'Karen Vivo Hartley' <khartley@cleanearthinc.com>; Satanek, Melanie <MSatanek@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: 'Claret Tening Ndifet' <cteningndifet@cleanearthinc.com>; 'Bob Sims' <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>
Subject: RE: RACER - Ewing

Bob per my voicemail can you let me know if we are able to start shipping soil tomorrow from the RACER site in Ewing or is there additional information that you require?

Thanks

Jeremy DeGrande, CHMM, CSP
Program Manager - Construction
Haley & Aldrich Construction Services
598 Byrne Industrial Drive
Rockford, MI 49341
O: 616.951.6233
C: 734.968.9101
F: 734.769.1237

jdegrande@haleyaldrich.com

www.haleyaldrich.com

From: DeGrande, Jeremy
Sent: Thursday, March 29, 2018 4:52 PM
To: Karen Vivo Hartley <khartley@cleanearthinc.com>; Satanek, Melanie <MSatanek@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>
Subject: RE: RACER - Ewing

Karen please see the attached revised profile and sample diagram.

There was no 004 as there was a mistake when labeling samples. Red circles have been placed where composite samples were taken and they were 5 point composites. Hope this clears things up.

Please let me know if you need anything additional.

Thanks

Jeremy

From: Karen Vivo Hartley <khartley@cleanearthinc.com>
Sent: Thursday, March 29, 2018 9:30 AM
To: DeGrande, Jeremy <JDeGrande@haleyaldrich.com>; Satanek, Melanie <MSatanek@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>

Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>
Subject: RE: RACER - Ewing

Jeremy,
CENC has reviewed the submittal. A couple of items for the technical approval –

Profile – provide a response for C.4. Site History
Sampling Diagram – we're having difficulty understanding the composites. Are they 4 point comps or 5 point comps? 001, 002, 003 and 005 are listed under each comp – 4 grabs for each?
Then only 001 002 003 are found in each section on the diagram
Finally 001, 002, 003 are next to each other in each section. Were they collected from the same area in each section? Where's 005? Is there an 004?

Let us know. Thanks.

Karen Vivo Hartley, CHMM
Senior Environmental Project Manager
Clean Earth, Inc.
O 215.734.1400 x 1245 | C 484-684-4761

From: DeGrande, Jeremy [mailto:JDeGrande@haleyaldrich.com]
Sent: Tuesday, March 27, 2018 5:19 PM
To: Karen Vivo Hartley <khartley@cleanearthinc.com>; Satanek, Melanie <MSatanek@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>
Subject: RE: RACER - Ewing

Karen – attached is the Non-haz manifest, agency agreement, and the sampling diagram revised for the soils associated with the analysis from the stockpile that we had sent over. Can you please review and let me know if you need anything additional to send this material to the New Castle facility? I am working on getting a PO issued but we have the contract in place.

If you have any questions please call me on my cell as I will be out of the office tomorrow.

Thanks

Jeremy DeGrande, CHMM, CSP
Program Manager - Construction
Haley & Aldrich Construction Services
598 Byrne Industrial Drive
Rockford, MI 49341
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C: 734.968.9101
F: 734.769.1237

jdegrande@haleyaldrich.com

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From: Karen Vivo Hartley <khartley@cleanearthinc.com>
Sent: Wednesday, March 21, 2018 5:18 PM
To: Satanek, Melanie <MSatanek@haleyaldrich.com>; DeGrande, Jeremy <JDeGrande@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>
Subject: RE: RACER - Ewing

Folks,
The soil represented by these four waste class samples appears to be acceptable for thermal treatment at CE, pending completion/technical review of the waste profile paperwork.

A few items-
In the table, change TCLP Pesticides to TCLP Herbicides for the 2,4-D & 2,4,5-TP.

The sampling diagrams are confusing. The TCLP VOCs & VOCs need to be collected from the areas exhibiting the highest contamination. This can be determined using visual, olfactory or instrumentation. If not, it can be viewed that the soil has not been classified or characterized properly. Also, the response "None" for TPH samples, TOX samples and composite samples…?

Feel free to create your own sampling diagrams – you do not have to use the CE template. The location of each discrete sample along with sample ID should be clearly identified. Indicate the location of the VOC & TCLP VOC samples.
Notes can be used to explain which discrete samples comprised the composite sample.

Contact us with questions. Thanks.

Karen Vivo Hartley, CHMM
Senior Environmental Project Manager
Clean Earth, Inc.
O 215.734.1400 x 1245 | C 484-684-4761

From: Satanek, Melanie [mailto:MSatanek@haleyaldrich.com]
Sent: Wednesday, March 21, 2018 11:08 AM
To: DeGrande, Jeremy <JDeGrande@haleyaldrich.com>; Karen Vivo Hartley <khartley@cleanearthinc.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>
Subject: RE: RACER - Ewing

Here is the updated table and lab report showing the new data that came in for Cyanide & SVOCs in the Composite samples.

Let me know if you have any questions.

Thanks,
Melanie

Melanie Satanek
Senior Scientist
Haley & Aldrich, Inc.
6500 Rockside Rd. | Suite 200
Cleveland, OH 44131

T: (216)706.1320
www.haleyaldrich.com

From: Countz, Arthur [mailto:ACountz@haleyaldrich.com]
Sent: Monday, March 19, 2018 3:40 PM
To: Karen Vivo Hartley <khartley@cleanearthinc.com>; Satanek, Melanie <MSatanek@haleyaldrich.com>; DeGrande, Jeremy <JDeGrande@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>
Subject: RE: RACER - Ewing

Karen I spoke with the lab and we will have the results for the total cyanide and the total semi-volatiles tomorrow morning, also attached are the sample diagrams that were requested.

From: DeGrande, Jeremy [mailto:JDeGrande@haleyaldrich.com]
Sent: Monday, March 19, 2018 10:46 AM
To: Karen Vivo Hartley <khartley@cleanearthinc.com>; Satanek, Melanie <MSatanek@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>
Subject: RE: RACER - Ewing

Art can you and Dan please fill this out and send back to the group.

From: DeGrande, Jeremy
Sent: Monday, March 19, 2018 10:43 AM
To: Karen Vivo Hartley <khartley@cleanearthinc.com>; Satanek, Melanie <MSatanek@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>
Subject: RE: RACER - Ewing

We are checking with the lab on the Totals Sample that you are missing.

TCLP Volatile Organics was a grab sample as directed by your sampling guidelines.

Jeremy DeGrande, CHMM, CSP
Program Manager - Construction
Haley & Aldrich Construction Services
598 Byrne Industrial Drive
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O: 616.951.6233
C: 734.968.9101
F: 734.769.1237

jdegrande@haleyaldrich.com

From: Karen Vivo Hartley <khartley@cleanearthinc.com>
Sent: Monday, March 19, 2018 10:09 AM
To: Satanek, Melanie <MSatanek@haleyaldrich.com>; DeGrande, Jeremy <JDeGrande@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>
Subject: RE: RACER - Ewing

Folks,
We seem to be missing the Total Semivolatiles.

Also, were the TCLP VOCs run on a grab sample or a composite sample?

Karen Vivo Hartley, CHMM
Senior Environmental Project Manager
Clean Earth, Inc.
O 215.734.1400 x 1245 | C 484-684-4761

From: Satanek, Melanie [mailto:MSatanek@haleyaldrich.com]
Sent: Friday, March 16, 2018 4:07 PM
To: DeGrande, Jeremy <JDeGrande@haleyaldrich.com>; Karen Vivo Hartley <khartley@cleanearthinc.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>
Subject: RE: RACER - Ewing

Hi Karen,

Per our phone call, here is the spreadsheet that I compiled with the data. Let me know if you have any questions.

Thanks,
Melanie

Melanie Satanek
Senior Scientist
Haley & Aldrich, Inc.
6500 Rockside Rd. | Suite 200
Cleveland, OH 44131

T: (216)706.1320
www.haleyaldrich.com

From: Satanek, Melanie
Sent: Friday, March 16, 2018 3:40 PM
To: DeGrande, Jeremy <JDeGrande@haleyaldrich.com>; Karen Vivo Hartley <khartley@cleanearthinc.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri

<DQuafisi@haleyaldrich.com>
Subject: RE: RACER - Ewing

Hi Karen,

These are the files I was able to download from Alpha's website. Will these formats work for you?

Thanks,
Melanie

Melanie Satanek
Senior Scientist
Haley & Aldrich, Inc.
6500 Rockside Rd. | Suite 200
Cleveland, OH 44131

T: (216)706.1320
www.haleyaldrich.com

From: DeGrande, Jeremy
Sent: Friday, March 16, 2018 3:10 PM
To: Karen Vivo Hartley <khartley@cleanearthinc.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>; Satanek, Melanie <MSatanek@haleyaldrich.com>
Subject: RE: RACER - Ewing

Melanie – I spoke with Dimitri and he told me that you are working on it. Please send out to all in the email.

Karen – Melanie will be sending over the information to you once she has it in an excel spread sheet. She is working on it now.

Thanks

Jeremy DeGrande, CHMM, CSP
Program Manager - Construction
Haley & Aldrich Construction Services
598 Byrne Industrial Drive
Rockford, MI 49341
O: 616.951.6233
C: 734.968.9101
F: 734.769.1237

jdegrande@haleyaldrich.com

From: Karen Vivo Hartley <khartley@cleanearthinc.com>
Sent: Friday, March 16, 2018 2:59 PM
To: DeGrande, Jeremy <JDeGrande@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>
Subject: RE: RACER - Ewing

Jeremy,
Please also provide the data in excel. Thanks.

Karen Vivo Hartley, CHMM
Senior Environmental Project Manager
Clean Earth, Inc.
O 215.734.1400 x 1245 | C 484-684-4761

From: DeGrande, Jeremy [mailto:JDeGrande@haleyaldrich.com]
Sent: Friday, March 16, 2018 2:45 PM
To: Karen Vivo Hartley <khartley@cleanearthinc.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>
Subject: RE: RACER - Ewing

Please see the attached analysis from the Stockpiled Group A Soils. As discussed with Bob, Clean Earth is requiring analysis and will respond with results compared to give acceptance criteria the Clean Earth Facilities. Please review and let me know the expected designation and pricing so I can complete a profile and a Purchase Order for this material.

Thanks

Jeremy DeGrande, CHMM, CSP
Program Manager - Construction
Haley & Aldrich Construction Services
598 Byrne Industrial Drive
Rockford, MI 49341
O: 616.951.6233
C: 734.968.9101
F: 734.769.1237

jdegrande@haleyaldrich.com

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From: Karen Vivo Hartley <khartley@cleanearthinc.com>
Sent: Monday, March 05, 2018 5:41 PM
To: Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; DeGrande, Jeremy <JDeGrande@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>
Subject: RE: RACER - Ewing

Folks,
Please find attached a hybrid sampling protocol for the impacted soil being generated at this site.

Divide the stockpile(s) into sections of ~ 750 tons each. Collect representative samples from each section at varying depths within that section.

TCLP VOC & VOC sample locations must be biased toward points exhibiting the highest evidence of organic contamination.

Contact us with questions. Thanks.

Karen Vivo Hartley, CHMM
Clean Earth, Inc.
215-734-1400 X1245
484-684-4761 - cell

Quafisi, Dimitri

From: Karen Vivo Hartley <khartley@cleanearthinc.com>
Sent: Thursday, April 05, 2018 5:47 PM
To: DeGrande, Jeremy; Satanek, Melanie; Paul, Forrest; Demas, David; Countz, Arthur
Cc: Claret Tening Ndifet; Bob Sims; Quafisi, Dimitri
Subject: RE: 128598-003 RACER Ewing Group B Stockpile Analysis

Jeremy,
Pending an acceptable sampling map, the material represented by this data is acceptable at CENC. We do not need a new profile – it will be an addition to the existing approval.

Contact us with questions. Thanks.

Karen Vivo Hartley, CHMM
Senior Environmental Project Manager
Clean Earth, Inc.
O 215.734.1400 x 1245 | C 484-684-4761

From: DeGrande, Jeremy [mailto:JDeGrande@haleyaldrich.com]
Sent: Thursday, April 5, 2018 12:37 AM
To: Karen Vivo Hartley <khartley@cleanearthinc.com>; Satanek, Melanie <MSatanek@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>
Subject: 128598-003 RACER Ewing Group B Stockpile Analysis

Karen – Please see the attached analysis from the Group B stockpile material that we sampled at the site last week. Currently we have about 700 tons piled up so only one sample set was taken. Please let me know if this material is acceptable for New Castle? If it meets the criteria I will fill out another profile form and submit. I am hoping to have a sampling diagram over to you tomorrow as well.

Thanks

Jeremy DeGrande, CHMM, CSP
Program Manager - Construction
Haley & Aldrich Construction Services
598 Byrne Industrial Drive
Rockford, MI 49341
O: 616.951.6233
C: 734.968.9101
F: 734.769.1237

jdegrande@haleyaldrich.com

www.haleyaldrich.com

Quafisi, Dimitri

From: Karen Vivo Hartley <khartley@cleanearthinc.com>
Sent: Tuesday, April 17, 2018 11:54 AM
To: DeGrande, Jeremy; Satanek, Melanie; Paul, Forrest; Demas, David; Countz, Arthur; Maria Goergen
Cc: Claret Tening Ndifet; Bob Sims; Quafisi, Dimitri
Subject: RE: 128598-003 RACER Ewing Group B-2 Stockpile Analysis

Jeremy,
The 750 tons represented by this data is approved into CENC.

Contact us with questions. Thanks.

Karen Vivo Hartley, CHMM
Senior Environmental Project Manager
Clean Earth, Inc.
O 215.734.1400 x 1245 | C 484-684-4761

From: DeGrande, Jeremy [mailto:JDeGrande@haleyaldrich.com]
Sent: Monday, April 16, 2018 9:16 PM
To: Karen Vivo Hartley <khartley@cleanearthinc.com>; Satanek, Melanie <MSatanek@haleyaldrich.com>; Paul, Forrest <FPaul@haleyaldrich.com>; Demas, David <DDemas@haleyaldrich.com>; Countz, Arthur <ACountz@haleyaldrich.com>; Maria Goergen <mgoergen@cleanearthinc.com>
Cc: Claret Tening Ndifet <cteningndifet@cleanearthinc.com>; Bob Sims <bsims@cleanearthinc.com>; Quafisi, Dimitri <DQuafisi@haleyaldrich.com>
Subject: 128598-003 RACER Ewing Group B-2 Stockpile Analysis

Karen – Please see the attached analysis and sampling diagram from the Group B-2 stockpile material that we sampled at the site last week. This sample is for 750 tons of material stockpiled onsite. Please let me know if this material is acceptable for New Castle? Art and the crew onsite would like to begin shipping Wednesday or Thursday this week if the sampling map and narrative are acceptable.

We will have two more lab analysis reports coming your way for review: Pile B-3 and Pile B-4. We will submit in separate emails as samples were taken at different times and we would like to continue shipping what we have lab analysis for. Please let me know if you require additional clarification.

Thanks

Jeremy DeGrande, CHMM, CSP
Program Manager - Construction
Haley & Aldrich Construction Services
598 Byrne Industrial Drive
Rockford, MI 49341
O: 616.951.6233
C: 734.968.9101
F: 734.769.1237

jdegrande@haleyaldrich.com

www.haleyaldrich.com

Quafisi, Dimitri

From: Chad Mazenko <cmazenko@cleanearthinc.com>
Sent: Monday, May 07, 2018 3:04 PM
To: Maria Goergen; Bob Sims; DeGrande, Jeremy; Countz, Arthur
Cc: Demas, David; Paul, Forrest
Subject: Re: Racer Shipping

Art,
B3, 4, & 5 are approved.
The soil looked good today.
We are confirmed for 5x3 tomorrow.
We also have you scheduled for 5x3 each day for the rest of the week as long as the material remains manageable.
Please let us know if anything were to change on your end.

Thanks,

Chad Mazenko
Field Services Manager
Clean Earth, Inc.
(302) 824-5995
cmazenko@cleanearthinc.com

From: Countz, Arthur
Sent: Monday, May 7, 2:21 PM
Subject: Racer Shipping
To: Maria Goergen, Chad Mazenko, Bob Sims, DeGrande, Jeremy
Cc: Demas, David, Paul, Forrest

Good afternoon Maria, we shipped 8 loads to the facility today that leaves me with 7 loads from pile B-2 So I am checking on the approval of plies B-3, B-4 and B-5, we would like to continue shipping tomorrow with 5x3 if that works for the facility and pending the approval of the other 3 piles.

Thank you
Art

IDW WEIGHT TICKETS

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000846406

	Date	Time	Scale
In:	4/4/2018	09:42:35	CENCSCALE1
Out:	4/4/2018	09:43:38	

	Lbs.	Tns
Gross:	75380.00	37.69
Tare:	28180.00	14.09
Net:	47200.00	23.60

Manifest: 817700

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.6000	TONS

Comment:

Driver: Catt

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 817700

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 18020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☑ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Other

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	09:39 em04-04-18 75380 75380
Racer 1445 Parkway Ewing NJ 08628	TARE WEIGHT: ☐Tons ☐Yards	28180
GENERATOR'S PHONE: 470 554 2415	NET WEIGHT: ☐Tons ☐Yards	23.60

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Pile A Soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 4-4-18 0804

TRANSPORTER

Company: COSTA Phone Number:

Address: Columbus NJ Truck # and License Plate: #6 AT17.7E

Driver: CHRIS SW Haulers Permit #: 35807

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-4-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-4-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 4 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000846411

	Date	Time	Scale
In:	4/4/2018	09:44:14	CENCSCALE1
Out:	4/4/2018	09:45:50	

Manifest: 817701

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	75340.00	37.67
Tare:	28340.00	14.17
Net:	47000.00	23.50

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.5000	TONS

Comment:

Driver: Eric

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 817701

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Other
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Racer 1445 Parkway Ewing NJ	GROSS WEIGHT: ☐Tons ☐Yards	75340 09:41 am 04-04-18 ~~75320~~
	TARE WEIGHT: ☐Tons ☐Yards	28340
GENERATOR'S PHONE: 470 554 2415	NET WEIGHT: ☐Tons ☐Yards	23.50

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Pile A Soils

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.4.18 0507

TRANSPORTER

Company: COSTA Phone Number:

Address: Truck # and License Plate: 5 AS789X

Driver: E Dlam SW Haulers Permit #: 35807

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: E Dlam Date and Time: 4 4 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: E Dlam Date and Time: 4 4 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 4 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000846420

	Date	Time	Scale
In:	4/4/2018	09:48:07	CENCSCALE1
Out:	4/4/2018	09:49:34	

Manifest: 817595

Vehicle ID: 02BMF1

Vehicle Permit: DESW-1448

	Lbs.	Tns
Gross:	72820.00	36.41
Tare:	26460.00	13.23
Net:	46360.00	23.18

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: BMF Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.1800	TONS

Comment:

Driver: Barry

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 817595

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** ~~[illegible]~~ 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Other
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	09:45 sm04-04-18 72820 72820
Racer 1445 Parkway Ewing NJ 08628	TARE WEIGHT: ☐Tons ☐Yards	26460
GENERATOR'S PHONE: 470 554 2415	NET WEIGHT: ☐Tons ☐Yards	23.18

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Pile A Soils

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Fountz for Racer Title: Con. Mgr

Signature: Art Fountz Date and Time: 4.4.18 0757

TRANSPORTER

Company: EQP / BMF Phone Number: 215 825 6774

Address: [illegible] Truck # and License Plate: BMF-1 [illegible]

Driver: Barry Fenelon SW Haulers Permit #: PA 1373*

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4-4-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4-4-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4 4 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000846432

	Date	Time	Scale
In:	4/4/2018	09:55:11	CENCSCALE1
Out:	4/4/2018	09:56:25	

	Lbs.	Tns
Gross:	73700.00	36.85
Tare:	25420.00	12.71
Net:	48280.00	24.14

Manifest: 817679

Vehicle ID: 02TDP201

Vehicle Permit: DESW-1657

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Two Dogs Propane, LLC / Progressive Prop

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing 08628
Township, NJ

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.1400	TONS

Comment:

Driver: Alan

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 817679

GLOBAL JOB NUMBER: 148 656 **FACILITY APPROVAL NUMBER:** 18302035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Other

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: DELPHI / GM PLANT RACER 1445 PARKWAY EWING TOWNSHIP NJ 08628	GROSS WEIGHT: ☐Tons ☐Yards	09:52 am04-04-18 ~~73720~~ 73100
	TARE WEIGHT: ☐Tons ☐Yards	25420
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	74.14

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non HAZ Soil Pile A

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr
Signature: Art Counts Date and Time: 4.4.18 0822

TRANSPORTER

Company: EDPI PROGRESSIVE PROPANE Phone Number: 215-805-6774
Address: 39 E CHERRY RD QUAKERTOWN PA Truck # and License Plate: 201 AG-60335
Driver: ALAN MATZ (Type or Print Clearly) SW Haulers Permit #: WH 18505 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4-4-18 8:25

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4-4-18 8:25

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-4-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000846439

	Date	Time	Scale
In:	4/4/2018	09:58:25	CENCSCALE1
Out:	4/4/2018	10:02:23	

	Lbs.	Tns
Gross:	74760.00	37.38
Tare:	25140.00	12.57
Net:	49620.00	24.81

Manifest: 817702

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.8100	TONS

Comment:

Driver: Dennis

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 817702

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 1830200035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☑ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Other

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Racer 1445 Parkway Ewing NJ 08628 GENERATOR'S PHONE: 470 554 2415	GROSS WEIGHT: ☐Tons ☐Yards	09:54 am 04-04-18 74760 ~~74740~~
	TARE WEIGHT: ☐Tons ☐Yards	25140
	NET WEIGHT: ☐Tons ☐Yards	24.81

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
File A Soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Easter Counts for Racer Title: Con Mgr
Signature: [signature] Date and Time: 4.4.18

TRANSPORTER

Company: EDP Transport / Salebury Const Inc Phone Number: 215-805-6774
Address: Coppersburg / Pa 18036 Truck # and License Plate: TK-5 AG 69367
Driver: Dennis Brady (Type or Print Clearly) SW Haulers Permit #: WH-19086 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4/4/18 7:30

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4/4/18 7:30

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4 4 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000846445

	Date	Time	Scale
In:	4/4/2018	10:02:44	CENCSCALE1
Out:	4/4/2018	10:04:09	

Manifest: 817359

Vehicle ID: 02DRW91

Vehicle Permit: DESW-1494

	Lbs.	Tns
Gross:	75540.00	37.77
Tare:	25140.00	12.57
Net:	50400.00	25.20

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: DRW Hauling

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.2000	TONS

Comment:

Driver: Dave

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 817359

GLOBAL JOB NUMBER: 148654 **FACILITY APPROVAL NUMBER:** 1830200036

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Other

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	75540 09:59 sm04-04-18 75540
Former Delphi IGM 1415 Parkway Burns Twp, NJ 08828	TARE WEIGHT: ☐Tons ☐Yards	25140
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	25.20

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non Haz Soil Pile A

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Jeff Counts for RACER Title: Con. Mgr

Signature: Jeff Counts Date and Time: 4-4-18 0815

TRANSPORTER

Company: EOA/DEW Phone Number: 215-805-6724

Address: Coopersburg Truck # and License Plate: 91-AF83411

Driver: Dave Wilson SW Haulers Permit #: DESW-1494
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dave Date and Time: 4-4-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dave Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 4 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000846455

	Date	Time	Scale
In:	4/4/2018	10:06:29	CENCSCALE1
Out:	4/4/2018	10:08:36	

Manifest: 774519

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	73560.00	36.78
Tare:	27440.00	13.72
Net:	46120.00	23.06

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.0600	TONS

Comment:

Driver: Mark

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 774519

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Other

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Racer Delphi / GM 1445 Parkway Ewing NJ 08628	GROSS WEIGHT: ☐Tons ☐Yards	73560 10:03 m04-04-18 73560
	TARE WEIGHT: ☐Tons ☐Yards	27440
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	23.06

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
No Haz Soils Pile A

Arrive - 7:30 Depart - 8:30

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Lee Counts for Racer Title: Con. Mgr

Signature: Lee Counts Date and Time: 4.4.18 0627

TRANSPORTER

Company: G.A. Peak Exc Phone Number: 215-723-7830

Address: 2850 Cleyna Rd. Telford, Pa. Truck # and License Plate: #16 AG12728

Driver: Mark Atkinson SW Haulers Permit #: WH6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/4/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/4/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4 4 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000846911

	Date	Time	Scale
In:	4/4/2018	12:38:59	CENCSCALE1
Out:	4/4/2018	12:40:42	

Manifest: 817594

Vehicle ID: 02BMF1

Vehicle Permit: DESW-1448

	Lbs.	Tns
Gross:	73680.00	36.84
Tare:	26460.00	13.23
Net:	47220.00	23.61

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: BMF Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.6100	TONS

Comment:

Driver: Barry

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 817594

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035 ~~183150006~~

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Other
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	12:36 pm 04-04-18 ~~73700~~ 73680
Racer Delphi/Gm 1445 Parkway Ewing NJ 08628	TARE WEIGHT: ☐Tons ☐Yards	26460
GENERATOR'S PHONE: 4705542415	NET WEIGHT: ☐Tons ☐Yards	23.61

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non Haz Soil Pile A

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Lowndes for Racer Title: Con. Mgr

Signature: Art Lowndes Date and Time: 4-4-18 1125

TRANSPORTER

Company: EDP/GMF Phone Number: 215 805 6774

Address: Cooper Ave. Truck # and License Plate: GMF - AF73176

Driver: Gary Fernandez (Type or Print Clearly) SW Haulers Permit #: WH12739 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-4-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-4-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-4-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000846937

	Date	Time	Scale
In:	4/4/2018	12:46:56	CENCSCALE1
Out:	4/4/2018	12:49:09	

	Lbs.	Tns
Gross:	75340.00	37.67
Tare:	25420.00	12.71
Net:	49920.00	24.96

Manifest: 817681

Vehicle ID: 02TDP201

Vehicle Permit: DESW-1657

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Two Dogs Propane, LLC / Progressive Prop

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing 08628
Township, NJ

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.9600	TONS

Comment:

Driver: Alan

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 817681

GLOBAL JOB NUMBER: 148 656 **FACILITY APPROVAL NUMBER:** 100302 0035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Other

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	12:44 PM 04-04-18 ~~75380~~ 75340
DELPHI / GM PLANT 1445 PARKWAY EWING TWP NJ 08628	TARE WEIGHT: ☐Tons ☐Yards	25420
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	24.96

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
NON HAZ SOIL Pile A

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Gountz for Racer Title: Con Mgr
Signature: Art Gountz Date and Time: 4-4-18 1131

TRANSPORTER

Company: EDP / PROCESSAFE PROPANE Phone Number: 215-805-6774
Address: 394 CHERRY RD QUAKERTOWN PA Truck # and License Plate: 201 AB 60335
Driver: ALAN FATE SW Haulers Permit #: WH 18505
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Alan Fate Date and Time: 4-4-18 11:30

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Alan Fate Date and Time: 4-4-18 11:30

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-4-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000846950

	Date	Time	Scale
In:	4/4/2018	12:55:36	CENCSCALE1
Out:	4/4/2018	12:57:13	

Manifest: 1683181

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	71740.00	35.87
Tare:	28180.00	14.09
Net:	43560.00	21.78

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.7800	TONS

Comment:

Driver: Catt

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1683181

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 1830200035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☑ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	12:53 pm04-04-18 71740 71740
Race Delphi Conn 1445 Parkway Ewing NJ 08628	TARE WEIGHT: ☐Tons ☐Yards	28180
GENERATOR'S PHONE: 470 5542415	NET WEIGHT: ☐Tons ☐Yards	71.78

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Haz Soils Pile A

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr.

Signature: Art Counts Date and Time: 4.4.18

TRANSPORTER

Company: COSTA Phone Number: 609-947-1655

Address: Columbus NJ Truck # and License Plate: #6 AT 7728

Driver: CHAD SW Haulers Permit #: 35807

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4-4-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4-4-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-4-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000846957

	Date	Time	Scale
In:	4/4/2018	12:57:19	CENCSCALE1
Out:	4/4/2018	12:59:29	

	Lbs.	Tns
Gross:	74380.00	37.19
Tare:	28340.00	14.17
Net:	46040.00	23.02

Manifest: 1683182

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.0200	TONS

Comment:

Driver: Eric

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1683182

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	12:55 PM 04-04-18 74380
Racer Delphi Gm 1445 Parkway Ewing NJ 08628	TARE WEIGHT: ☐Tons ☐Yards	78340
GENERATOR'S PHONE: 470 554 2415	NET WEIGHT: ☐Tons ☐Yards	73.02

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Int Countz for Racer Title: Con Mgr.

Signature: Int Countz Date and Time: 4.4.18 1139

TRANSPORTER

Company: COSTA Phone Number:

Address: Columbus NJ Truck # and License Plate: 5 AS 739X

Driver: CARLO SW Haulers Permit #: 35807

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-4-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4-4-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-4-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000846962

	Date	Time	Scale
In:	4/4/2018	13:00:08	CENCSCALE1
Out:	4/4/2018	13:01:16	

	Lbs.	Tns
Gross:	73620.00	36.81
Tare:	25140.00	12.57
Net:	48480.00	24.24

Manifest: 817353

Vehicle ID: 02DRW91

Vehicle Permit: DESW-1494

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: DRW Hauling

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing 08628
Township, NJ

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.2400	TONS

Comment:

Driver: Dave

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 817353

GLOBAL JOB NUMBER: 148636 **FACILITY APPROVAL NUMBER:** 183020025

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☑ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Other

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: former Delphi / GM 1445 Powerline Elkins Twp NJ	GROSS WEIGHT: ☐Tons ☐Yards	12:57 pm 04-04-18 73600
	TARE WEIGHT: ☐Tons ☐Yards	35140
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	34.24

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Haz Soil Pile A

GENERATOR'S CERTIFICATION Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Pacer Title: Con Mgr

Signature: Art Counts Date and Time: 4.4.18 1146

TRANSPORTER

Company: GPP/DRW Phone Number: 215 805-6774

Address: Doylestown PA Truck # and License Plate: 91-AF8344

Driver: Dave Wilson SW Haulers Permit #: DE SW 1499

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-4-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-4-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000846976

	Date	Time	Scale
In:	4/4/2018	13:04:21	CENCSCALE1
Out:	4/4/2018	13:05:49	

Manifest: 817703

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

	Lbs.	Tns
Gross:	70440.00	35.22
Tare:	25140.00	12.57
Net:	45300.00	22.65

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.6500	TONS

Comment:

Driver: Dennis

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 817703

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Other

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Racer Delphi/Gm 1445 Parkway Ewing NJ	GROSS WEIGHT: ☐Tons ☐Yards	01:02 pm04-04-18 70440 70440
	TARE WEIGHT: ☐Tons ☐Yards	25140
GENERATOR'S PHONE: 4705545415	NET WEIGHT: ☐Tons ☐Yards	22.65

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Haz Soils Pile A

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr
Signature: Art Counts Date and Time: 4.4.18 1130

TRANSPORTER

Company: EDP Transport Phone Number: 215-805-6774
Address: Coppersburg PA 18036 Truck # and License Plate: TK-5 AG 69367
Driver: Dennis Brady (Type or Print Clearly) SW Haulers Permit #: WH 19086 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dennis Brady Date and Time: 4/4/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dennis Brady Date and Time: 4/4/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-4-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847023

	Date	Time	Scale
In:	4/4/2018	13:24:01	CENCSCALE1
Out:	4/4/2018	13:26:08	

Manifest: 774520

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	71420.00	35.71
Tare:	27440.00	13.72
Net:	43980.00	21.99

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.9900	TONS

Comment:

Driver: Mark

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 774520

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 18302003S

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Other

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	01:21 pm04-04-18 71420 71420
Race Delphi Gm 1445 Parkway Ewing NJ 08628	TARE WEIGHT: ☐Tons ☐Yards	77440
GENERATOR'S PHONE: 470 554 2415	NET WEIGHT: ☐Tons ☐Yards	71.99

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Haz Soils Pile A

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr
Signature: Art Counts Date and Time: 4.4.18 1156

TRANSPORTER

Company: G.A. Peak Exc. Phone Number: 215-223-7830
Address: 2850 Clymer Rd. Telford, Pa. Truck # and License Plate: #16 AG12728
Driver: Mark Atkinson SW Haulers Permit #: WH6795
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/4/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/4/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-4-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847235

	Date	Time	Scale
In:	4/4/2018	15:25:04	CENCSCALE1
Out:	4/4/2018	15:27:44	

	Lbs.	Tns
Gross:	75820.00	37.91
Tare:	26460.00	13.23
Net:	49360.00	24.68

Manifest: 817587

Vehicle ID: 02BMF1

Vehicle Permit: DESW-1448

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: BMF Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.6800	TONS

Comment:

Driver: Barry

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 817587

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 18302035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Other

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	03:22 PM 04-04-18 75820 75820
Racer Delphi Gm 1445 Parkway Ewing NJ 08628	TARE WEIGHT: ☐Tons ☐Yards	76460
GENERATOR'S PHONE: 470 554 2415	NET WEIGHT: ☐Tons ☐Yards	74.68

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non HAz Soil Pile A

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr
Signature: Art Counts Date and Time: 4.4.18 1413

TRANSPORTER

Company: EDP / BMF Phone Number: 215 805 6771
Address: Cooperbury Rd Truck # and License Plate: BMF-1 AF7873
Driver: Barry Fernandez (Type or Print Clearly) SW Haulers Permit #: WH 13739 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: B Z Date and Time: 4-4-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-4-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-4-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847273

	Date	Time	Scale
In:	4/4/2018	15:43:23	CENCSCALE1
Out:	4/4/2018	15:45:18	

	Lbs.	Tns
Gross:	76180.00	38.09
Tare:	25140.00	12.57
Net:	51040.00	25.52

Manifest: 817354

Vehicle ID: 02DRW91

Vehicle Permit: DESW-1494

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: DRW Hauling

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.5200	TONS

Comment:

Driver: Dave

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 817354

GLOBAL JOB NUMBER: 148654 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Other
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Former Delphi / GM 1445 Parkway Glenn Twp, NJ 08638	GROSS WEIGHT: ☐Tons ☐Yards	76180 03:40 pm 04-04-18 ~~76160~~
	TARE WEIGHT: ☐Tons ☐Yards	25140
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	25.52

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Stone Haz Soil Pile A

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz Title: Con. Mgr

Signature: Art Countz Date and Time: 4.4.18 1430

TRANSPORTER

Company: EDP/DLW Phone Number: 215-805-6724

Address: Coppersburg Truck # and License Plate: GI-AF-8341

Driver: Dave Wilson (Type or Print Clearly) SW Haulers Permit #: DeSW 1454 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-4-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 4 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847276

	Date	Time	Scale
In:	4/4/2018	15:45:40	CENCSCALE1
Out:	4/4/2018	15:47:12	

	Lbs.	Tns
Gross:	75200.00	37.60
Tare:	28180.00	14.09
Net:	47020.00	23.51

Manifest: 1683184

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.5100	TONS

Comment:

Driver: Catt

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1683184

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 1830200135

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	75200 03:43 pm 04-04-18 75240
Racer Delphi GM 1445 Parkway Ewing NJ 08628	TARE WEIGHT: ☐Tons ☐Yards	28180
GENERATOR'S PHONE: 4705542415	NET WEIGHT: ☐Tons ☐Yards	23.51

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Haz Soils Pile A

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4-4-18 1420

TRANSPORTER

Company: COSTA Phone Number:

Address: Columbus NJ Truck # and License Plate: #6 AT9772E

Driver: OATTD (Type or Print Clearly) SW Haulers Permit #: 35807 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-4-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4-4-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4 4 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847283

	Date	Time	Scale
In:	4/4/2018	15:49:28	CENCSCALE1
Out:	4/4/2018	15:50:40	

Manifest: 1683183

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	75160.00	37.58
Tare:	28340.00	14.17
Net:	46820.00	23.41

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.4100	TONS

Comment:

Driver: Eric

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 1683183

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	75160 ~~75145~~
Racer Delphi Gm 1445 Parkway Ewing NJ 08628	TARE WEIGHT: ☐Tons ☐Yards	28340
GENERATOR'S PHONE: 4705542415	NET WEIGHT: ☐Tons ☐Yards	23.41

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non Haz Soils Pile A

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.4.18 1425

TRANSPORTER

Company: CastA Phone Number:

Address: Truck # and License Plate: 5 AS789X

Driver: Eric (Type or Print Clearly) SW Haulers Permit #: 35807 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4 4 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4 4 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 4 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847289

	Date	Time	Scale
In:	4/4/2018	15:52:29	CENCSCALE1
Out:	4/4/2018	15:53:51	

Manifest: 817704

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

	Lbs.	Tns
Gross:	72040.00	36.02
Tare:	25140.00	12.57
Net:	46900.00	23.45

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.4500	TONS

Comment:

Driver: Dennis

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 817704

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Other

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	72040 03:49 PM 04-04-18 ~~72180~~
Racer Delphi Gm 1445 Parkway Ewing NJ 08628	TARE WEIGHT: ☐Tons ☐Yards	25140
GENERATOR'S PHONE: 470 554 2415	NET WEIGHT: ☐Tons ☐Yards	23.45

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Haz Soils Pile A

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. mgr
Signature: Art Counts Date and Time: 4.4.18 1440

TRANSPORTER

Company: EDP Transport / Solebury Const Inc Phone Number: 215-805-6774
Address: Coppersburg PA 18036 Truck # and License Plate: TK-5-AG 69367
Driver: Dennis Brady (Type or Print Clearly) SW Haulers Permit #: WH-19086 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dennis Brady Date and Time: 4/4/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dennis Brady Date and Time: 4/4/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4/4/18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847294

	Date	Time	Scale
In:	4/4/2018	15:53:58	CENCSCALE1
Out:	4/4/2018	15:56:18	

	Lbs.	Tns
Gross:	77480.00	38.74
Tare:	25420.00	12.71
Net:	52060.00	26.03

Manifest: 817680

Vehicle ID: 02TDP201

Vehicle Permit: DESW-1657

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Two Dogs Propane, LLC / Progressive Prop

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	26.0300	TONS

Comment:

Driver: Al

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 817680

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Other

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	77480 03151 PM04-04-18 77480
DELPHI / GM PLANT 1445 PARKWAY EWING TWP NJ 08628	TARE WEIGHT: ☐Tons ☐Yards	25420
GENERATOR'S PHONE: 720 554 2415	NET WEIGHT: ☐Tons ☐Yards	26.03

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NON HAZ SOIL Pile A

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Courtz for Racer Title: Con Mgr

Signature: Art Courtz Date and Time: 4-4-18 1417

TRANSPORTER

Company: EDP / PROGRESSIVE PROPANE Phone Number: 215-865-6774

Address: 34 E CHERRY RD QUAKERTOWN PA Truck # and License Plate: 201 AA60335

Driver: ALAN MATE SW Haulers Permit #: WH 18505

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-4-18 2:20

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-4-18 2:20

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 4 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847306

	Date	Time	Scale
In:	4/4/2018	16:01:40	CENCSCALE1
Out:	4/4/2018	16:04:44	

Manifest: 1683185

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	76760.00	38.38
Tare:	27440.00	13.72
Net:	49320.00	24.66

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.6600	TONS

Comment:

Driver: Mark

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 1683185

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	76760 03:58 PM 04-04-18 ~~76760~~
Racer Delphi Gm 1445 Parkway Ewing NJ 08628	TARE WEIGHT: ☐Tons ☐Yards	27440
GENERATOR'S PHONE: 4705542415	NET WEIGHT: ☐Tons ☐Yards	24.66

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non Haz Soils Pile A

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 4.4.18 1445

TRANSPORTER

Company: G.A. Peak Esa Phone Number: 215-723-7830

Address: 2850 Clemmer Rd. Telford, Pa. Truck # and License Plate: #16 AG12728

Driver: Mark Atkinson (Type or Print Clearly) SW Haulers Permit #: WH6795 (applicable state permit #)

I hereby certify that ~~the above~~ named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/4/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/4/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4 4 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847698

	Date	Time	Scale
In:	4/5/2018	09:08:55	CENCSCALE1
Out:	4/5/2018	09:10:26	

Manifest: 1745657

Vehicle ID: 02CH07

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	74480.00	37.24
Tare:	26060.00	13.03
Net:	48420.00	24.21

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.2100	TONS

Comment:

Driver: Mike

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745657

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	09:06 AM 04-05-18 74480 74480
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	76060
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	74.21

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr.

Signature: Art Counts Date and Time: 4.5.18

TRANSPORTER

Company: Costa Haulers Phone Number: 856-341-4412

Address: 11 Fairmont Dr Columbus NJ Truck # and License Plate: #7 AT222N

Driver: Michael Carter (Type or Print Clearly) SW Haulers Permit #: _____ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4-5-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847736

	Date	Time	Scale
In:	4/5/2018	09:24:40	CENCSCALE1
Out:	4/5/2018	09:25:50	

Manifest: 1745656

Vehicle ID: 02CH04

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	76940.00	38.47
Tare:	28460.00	14.23
Net:	48480.00	24.24

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.2400	TONS

Comment:

Driver: Costa

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745656

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.**	GROSS WEIGHT: ☒ Tons ☐ Yards	09:21 am04-05-18 76940 76940
1445 Parkway Avenue	TARE WEIGHT: ☒ Tons ☐ Yards	78460
Ewing Township, NJ 08628	NET WEIGHT: ☒ Tons ☐ Yards	74.24
GENERATOR'S PHONE: **973-263-3900**		

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4-5-18

TRANSPORTER

Company: C & STA Phone Number:

Address: Truck # and License Plate: # 4 AS3145

Driver: [illegible] C & STA SW Haulers Permit #: 15212

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-5-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847744

	Date	Time	Scale
In:	4/5/2018	09:26:52	CENCSCALE1
Out:	4/5/2018	09:28:46	

	Lbs.	Tns
Gross:	74440.00	37.22
Tare:	25140.00	12.57
Net:	49300.00	24.65

Manifest: 1745655

Vehicle ID: 02DRW91

Vehicle Permit: DESW-1494

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: DRW Hauling

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.6500	TONS

Comment:

Driver: Dave

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745655

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:23 am04-05-18 74440
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	74440
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25140
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	74.65

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.5.18

TRANSPORTER

Company: EDP/RLL Phone Number: 215-805-6774

Address: Copperstown Truck # and License Plate: 91-[illegible]3411

Driver: [illegible] SW Haulers Permit #: [illegible]

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847749

	Date	Time	Scale
In:	4/5/2018	09:29:35	CENCSCALE1
Out:	4/5/2018	09:30:34	

Manifest: 1745659

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

	Lbs.	Tns
Gross:	68560.00	34.28
Tare:	25140.00	12.57
Net:	43420.00	21.71

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.7100	TONS

Comment:

Driver: Dennis

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745659

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	09:26 am04-05-18 69560 68560
	TARE WEIGHT: ☒ Tons ☐ Yards	25140
	NET WEIGHT: ☒ Tons ☐ Yards	21.71

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Cont. Mgr

Signature: Art Countz Date and Time: 4.5.18

TRANSPORTER

Company: EDP TRANSPORT / Solebury CONST INC Phone Number: 215 805 - 6774

Address: Coppersburg PA 18036 Truck # and License Plate: TK-5 - AG69367

Driver: Dennis Brady (Type or Print Clearly) SW Haulers Permit #: WH - 19086 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dennis Brady Date and Time: 4/5/18 - 7:30

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dennis Brady Date and Time: 4/5/18 7:30

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847757

	Date	Time	Scale
In:	4/5/2018	09:32:29	CENCSCALE1
Out:	4/5/2018	09:33:36	

Manifest: 1745658

Vehicle ID: 02BMF1

Vehicle Permit: DESW-1448

	Lbs.	Tns
Gross:	73840.00	36.92
Tare:	26460.00	13.23
Net:	47380.00	23.69

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: BMF Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.6900	TONS

Comment:

Driver: Barry

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745658

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ ☐Tons ☐Yards	08:29 ~~77020~~ 73840
	TARE WEIGHT: ☒ ☐Tons ☐Yards	46460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT: ☒ ☐Tons ☐Yards	23.69

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 4-5-18

TRANSPORTER

Company: EQP/BMF Phone Number: 215 805 6774

Address: Coopersburg Pa. Truck # and License Plate: BMF-1 AF78173

Driver: Barry Fernandez SW Haulers Permit #: DESW1443

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4-5-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847785

	Date	Time	Scale
In:	4/5/2018	09:43:00	CENCSCALE1
Out:	4/5/2018	09:44:06	

	Lbs.	Tns
Gross:	72960.00	36.48
Tare:	27440.00	13.72
Net:	45520.00	22.76

Manifest: 1745653

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.7600	TONS

Comment:

Driver: Mark

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745653

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	09:39 am04-05-18 ~~72340~~ 72960
	TARE WEIGHT: ☒ Tons ☐ Yards	37440
	NET WEIGHT: ☒ Tons ☐ Yards	35.76

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.5.18

TRANSPORTER

Company: G. A. Peak Exc. Phone Number: 215.723.7830

Address: 2850 clymer Rd. Telford Pa. Truck # and License Plate: #16 AG12728

Driver: Mark Atkinson SW Haulers Permit #: WH6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/5/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/5/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000847881

	Date	Time	Scale
In:	4/5/2018	10:27:12	CENCSCALE1
Out:	4/5/2018	10:28:28	

	Lbs.	Tns
Gross:	71820.00	35.91
Tare:	27940.00	13.97
Net:	43880.00	21.94

Manifest: 1745654

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.9400	TONS

Comment:

Driver: David

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745654

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	10:24 04-05-18 ~~71500~~ 71820
	TARE WEIGHT: ☒ Tons ☐ Yards	77940
	NET WEIGHT: ☒ Tons ☐ Yards	71.94

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr

Signature: Art Countz Date and Time: 4-5-18

TRANSPORTER

Company: Costa Haulers Phone Number:

Address: Columbus NJ Truck # and License Plate: #3 / A58640

Driver: DAVID E. BAKER (Type or Print Clearly) SW Haulers Permit #: 13363 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4/5/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4/5/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848095

	Date	Time	Scale
In:	4/5/2018	11:50:21	CENCSCALE1
Out:	4/5/2018	11:51:43	

Manifest: 1745601

Vehicle ID: 02CH07

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	72940.00	36.47
Tare:	26060.00	13.03
Net:	46880.00	23.44

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.4400	TONS

Comment:

Driver: Mike

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745601

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ Tons ☐ Yards	11947 04-05-18 ~~72960~~ 72940
	TARE WEIGHT: ☒ Tons ☐ Yards	26060
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards	23.44

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer — Title: Con Mgr

Signature: Art Counts — Date and Time: 4-5-18 1025

TRANSPORTER

Company: Costa Haulers — Phone Number: 856-341-4412

Address: 11 Fairmont Drive, Columbus, NJ — Truck # and License Plate: #7 A1222N

Driver: Michael Carter (Type or Print Clearly) — SW Haulers Permit #: _____ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4-5-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848169

	Date	Time	Scale
In:	4/5/2018	12:23:55	CENCSCALE1
Out:	4/5/2018	12:24:53	

Manifest: 1745602

Vehicle ID: 02CH04

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	76780.00	38.39
Tare:	28460.00	14.23
Net:	48320.00	24.16

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.1600	TONS

Comment:

Driver: Costa

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745602

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Former Delphi Trenton Facility/R.A.C.E.R. 1445 Parkway Avenue Ewing Township, NJ 08628 GENERATOR'S PHONE: 973-263-3900	GROSS WEIGHT: ☒ Tons ☐ Yards	76780 12:19 PM04-05-18 76780
	TARE WEIGHT: ☒ Tons ☐ Yards	28460
	NET WEIGHT: ☒ Tons ☐ Yards	24.16

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.5.18

TRANSPORTER

Company: CoSTA Phone Number:

Address: Truck # and License Plate: #4 A53145

Driver: Anthony CoSTA SW Haulers Permit #: 15212

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-5-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 5 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848172

	Date	Time	Scale
In:	4/5/2018	12:25:00	CENCSCALE1
Out:	4/5/2018	12:26:51	

	Lbs.	Tns
Gross:	74100.00	37.05
Tare:	26460.00	13.23
Net:	47640.00	23.82

Manifest: 1745604

Vehicle ID: 02BMF1

Vehicle Permit: DESW-1448

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: BMF Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.8200	TONS

Comment:

Driver: Barry

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745604

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards — 12:22 pm 4-05-18 ~~74660~~ 74100
	TARE WEIGHT: ☒ Tons ☐ Yards — 26460
	NET WEIGHT: ☒ Tons ☐ Yards — 23.92

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4-5-18 1102

TRANSPORTER

Company: EQP/BMF Phone Number: 215 805 6771

Address: Coopersburg Pa. Truck # and License Plate: BMF-1 AF7817

Driver: Barry Fenner (Type or Print Clearly) SW Haulers Permit #: WH 15737 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-5-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 5 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848181

	Date	Time	Scale
In:	4/5/2018	12:28:48	CENCSCALE1
Out:	4/5/2018	12:30:10	

Manifest: 1745603

Vehicle ID: 02DRW91

Vehicle Permit: DESW-1494

	Lbs.	Tns
Gross:	78780.00	39.39
Tare:	25140.00	12.57
Net:	53640.00	26.82

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: DRW Hauling

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	26.8200	TONS

Comment:

Driver: Dave

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745603

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ Tons ☐ Yards	78780 12:24 pm04-05-18 78780
	TARE WEIGHT: ☒ Tons ☐ Yards	25140
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards	26,82

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Race Title: Con-mgr.

Signature: Art Counts Date and Time: 4.5.18 1050

TRANSPORTER

Company: CDP/PLO Phone Number: 215-805-6774

Address: Hopelawn Truck # and License Plate: 91-AF83411

Driver: Steve Wilson (Type or Print Clearly) SW Haulers Permit #: HQSW1494 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 5 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848212

	Date	Time	Scale
In:	4/5/2018	12:38:24	CENCSCALE1
Out:	4/5/2018	12:39:31	

Manifest: 1745605

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	77160.00	38.58
Tare:	27440.00	13.72
Net:	49720.00	24.86

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.8600	TONS

Comment:

Driver: Mark

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745605

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:35 pm04-05-18 77160
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	77160
1445 Parkway Avenue	TARE WEIGHT:	77440
Ewing Township, NJ 08628	☒ Tons ☐ Yards	
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	24.86
	☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.5.18 1108

TRANSPORTER

Company: G.A. Peak Exc. Phone Number: 215.723.7830

Address: 2850 Clymer Rd. Telford, Pa. Truck # and License Plate: #16 AG12728

Driver: Mark Atkinson SW Haulers Permit #: WH6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/5/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/5/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848227

	Date	Time	Scale
In:	4/5/2018	12:40:30	CENCSCALE1
Out:	4/5/2018	12:42:53	

Manifest: 1745606

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

	Lbs.	Tns
Gross:	76860.00	38.43
Tare:	25140.00	12.57
Net:	51720.00	25.86

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.8600	TONS

Comment:

Driver: Dennis

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745606

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ Tons ☐ Yards — 12:37 PM 04-05-18 ~~76845~~ 76860
GENERATOR'S PHONE: **973-263-3900**	TARE WEIGHT: ☒ Tons ☐ Yards — 75140
	NET WEIGHT: ☒ Tons ☐ Yards — 75.86

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer — Title: Con. Mgr

Signature: Art Counts — Date and Time: 4-5-18 1112

TRANSPORTER

Company: EDP TRANSPORT / Solebury Const Inc — Phone Number: 215-805-6774

Address: Coppersburg PA 18036 — Truck # and License Plate: TK-5 AG 69367

Driver: Dennis Brady (Type or Print Clearly) — SW Haulers Permit #: WH-19086 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dennis Brady — Date and Time: 4/5/18 11:13

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dennis Brady — Date and Time: 4/5/18 11:13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] — Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848266

	Date	Time	Scale
In:	4/5/2018	12:49:07	CENCSCALE1
Out:	4/5/2018	12:51:07	

	Lbs.	Tns
Gross:	78340.00	39.17
Tare:	25920.00	12.96
Net:	52420.00	26.21

Manifest: 1745609

Vehicle ID: 02E676

Vehicle Permit: DESW-1434

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: EDP Inc dba EDP Transport

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	26.2100	TONS

Comment:

Driver: Chris

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745609

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12345 em04-05-18 78340
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	78340
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25920
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	26.21

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr.

Signature: Art Counts Date and Time: 4-5-18 1117

TRANSPORTER

Company: ECP Transport Phone Number: 215-805-6774

Address: Coopersburg PA Truck # and License Plate: 676 AG62452

Driver: Chris Rhoads SW Haulers Permit #: DE-SW-1434

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4-5-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848274

	Date	Time	Scale
In:	4/5/2018	12:51:56	CENCSCALE1
Out:	4/5/2018	12:53:06	

	Lbs.	Tns
Gross:	81280.00	40.64
Tare:	25320.00	12.66
Net:	55960.00	27.98

Manifest: 1745607

Vehicle ID: 02E176

Vehicle Permit: DESW-1434

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: EDP Inc dba EDP Transport

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	27.9800	TONS

Comment:

Driver: Dixon

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745607

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:48 pm04-05-18 81280
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	81280
1445 Parkway Avenue	TARE WEIGHT:	25320
Ewing Township, NJ 08628	☒ Tons ☐ Yards	
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	27.98
	☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 4.5.18 1115 1130

TRANSPORTER

Company: EDP TRANSPORT Phone Number: 215-805 6774

Address: COOPERSBURG Truck # and License Plate: 176 / 06 18295

Driver: Dixon Conrad (Type or Print Clearly) SW Haulers Permit #: 2658 12/34 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dixon Conrad Date and Time: 4/5/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dixon Conrad Date and Time: 4/5/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848282

	Date	Time	Scale
In:	4/5/2018	12:53:52	CENCSCALE1
Out:	4/5/2018	12:55:42	

	Lbs.	Tns
Gross:	78320.00	39.16
Tare:	25000.00	12.50
Net:	53320.00	26.66

Manifest: 1745608

Vehicle ID: 02E376

Vehicle Permit: DESW-1434

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: EDP Inc dba EDP Transport

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	26.6600	TONS

Comment:

Driver: Rich

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745608

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ Tons ☐ Yards	78320
	TARE WEIGHT: ☒ Tons ☐ Yards	25000
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards	26.66

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr.

Signature: Art Counts Date and Time: 4.5.18 1120

TRANSPORTER

Company: EOP Transport Phone Number: 215-805-6774

Address: Coopersburg PA Truck # and License Plate: 376 AEY6442 PA

Driver: Rich SW Haulers Permit #: DE-SW 1434

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Rich Date and Time: 4-5-18 11:30

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Rich Date and Time: 4-5-18 12:50

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848341

	Date	Time	Scale
In:	4/5/2018	13:18:45	CENCSCALE1
Out:	4/5/2018	13:20:03	

Manifest: 1745611

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	74900.00	37.45
Tare:	28180.00	14.09
Net:	46720.00	23.36

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.3600	TONS

Comment:

Driver: Catt

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745611

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	01:15 PM04-05-18 74900
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	74900
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	78180
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	73.36

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4.5.18 1145

TRANSPORTER

Company: C-STEP Phone Number:

Address: Columbus NJ Truck # and License Plate: #6 AT 972E

Driver: CATTD SW Haulers Permit #: 35807

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4-5-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848347

	Date	Time	Scale
In:	4/5/2018	13:20:39	CENCSCALE1
Out:	4/5/2018	13:21:53	

Manifest: 1745610

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	77280.00	38.64
Tare:	28340.00	14.17
Net:	48940.00	24.47

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.4700	TONS

Comment:

Driver: Eric

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745610

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	31117 em04-05-18 77280
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	77280
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28340
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	24.47

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4.5.18 1140

TRANSPORTER

Company: COSTA Phone Number:

Address: Truck # and License Plate: 5 AS789X

Driver: Eric (Type or Print Clearly) SW Haulers Permit #: 35807 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4 5 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4 5 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848522

	Date	Time	Scale
In:	4/5/2018	14:33:38	CENCSCALE1
Out:	4/5/2018	14:35:07	

Manifest: 1745613

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	73980.00	36.99
Tare:	27940.00	13.97
Net:	46040.00	23.02

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.0200	TONS

Comment:

Driver: Dave

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745613

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.**	GROSS WEIGHT: ☒ Tons ☐ Yards	02:30 PM 04-05-18 ~~73960~~ 73980
1445 Parkway Avenue	TARE WEIGHT: ☒ Tons ☐ Yards	73940
Ewing Township, NJ 08628		
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards	73.02

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.5.18 1302

TRANSPORTER

Company: COSTA Haulers Phone Number:

Address: Columbus N.J Truck # and License Plate: #31AS8648

Driver: DAVID E. DANER (Type or Print Clearly) SW Haulers Permit #: 13367 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4/8/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4/5/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848550

	Date	Time	Scale
In:	4/5/2018	14:49:15	CENCSCALE1
Out:	4/5/2018	14:50:33	

Manifest: 1745614

Vehicle ID: 02CH07

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	74440.00	37.22
Tare:	26060.00	13.03
Net:	48380.00	24.19

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.1900	TONS

Comment:

Driver: Mike

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745614

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	74440
	TARE WEIGHT: ☒ Tons ☐ Yards	46060
	NET WEIGHT: ☒ Tons ☐ Yards	24.19

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con-Mge

Signature: Art Counts Date and Time: 4.5.18 1318

TRANSPORTER

Company: Costa Haulers Phone Number: 856-341-4412

Address: 11 Fairmont Drive Columbus, NJ Truck # and License Plate: #7 AT222N

Driver: Michael Carter SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4-5-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848576

	Date	Time	Scale
In:	4/5/2018	15:04:32	CENCSCALE1
Out:	4/5/2018	15:06:46	

	Lbs.	Tns
Gross:	72140.00	36.07
Tare:	26460.00	13.23
Net:	45680.00	22.84

Manifest: 1745615

Vehicle ID: 02BMF1

Vehicle Permit: DESW-1448

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: BMF Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.8400	TONS

Comment:

Driver: Barry

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745615

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	72140
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	76460
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	32.84

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Cons Mgr

Signature: Art Counts Date and Time: 4.5.18 1340

TRANSPORTER

Company: EDI / BMF Phone Number: 215 805 6774

Address: Coopersburg Pa Truck # and License Plate: BTF-1 AH7878

Driver: Gary Fernandez SW Haulers Permit #: OESW1448

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4-5-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848610

	Date	Time	Scale
In:	4/5/2018	15:19:34	CENCSCALE1
Out:	4/5/2018	15:21:41	

	Lbs.	Tns
Gross:	75680.00	37.84
Tare:	25140.00	12.57
Net:	50540.00	25.27

Manifest: 1745617

Vehicle ID: 02DRW91

Vehicle Permit: DESW-1494

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: DRW Hauling

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.2700	TONS

Comment:

Driver: Dave

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745617

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	07:17 pm04-05-18 75680
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	75680
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	75140
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	75.77

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.5.18 1355

TRANSPORTER

Company: CDJ DRW Phone Number: 215-805-6774

Address: Carpentersville Truck # and License Plate: 91-AF83411

Driver: J Arellano SW Haulers Permit #: DESW 1494

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848614

	Date	Time	Scale
In:	4/5/2018	15:23:01	CENCSCALE1
Out:	4/5/2018	15:24:31	

Manifest: 1745618

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

	Lbs.	Tns
Gross:	71100.00	35.55
Tare:	25140.00	12.57
Net:	45960.00	22.98

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.9800	TONS

Comment:

Driver: Dennis

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745618

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ ☐Tons ☐Yards	07:00 =>04-05-18 ~~71125~~ 71100
	TARE WEIGHT: ☒ ☐Tons ☐Yards	75140
	NET WEIGHT: ☒ ☐Tons ☐Yards	77.98

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 4-5-18 1400

TRANSPORTER

Company: EDP Transport / Solebury Const Enc Phone Number: 215 805-6774

Address: Coppersburg PA 18036 Truck # and License Plate: TK-5 AG69307

Driver: Dennis Brady (Type or Print Clearly) SW Haulers Permit #: WH-19086 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Brady Date and Time: 4/5/18 14:15

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Brady Date and Time: 14:15

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848619

	Date	Time	Scale
In:	4/5/2018	15:25:53	CENCSCALE1
Out:	4/5/2018	15:27:43	

	Lbs.	Tns
Gross:	76880.00	38.44
Tare:	28460.00	14.23
Net:	48420.00	24.21

Manifest: 1745616

Vehicle ID: 02CH04

Vehicle Permit: DESW-1521

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.2100	TONS

Comment:

Driver: Costa

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745616

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	
1445 Parkway Avenue	TARE WEIGHT:	76880
Ewing Township, NJ 08628	☒ Tons ☐ Yards	78460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	24.21
	☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.5.18 1345

TRANSPORTER

Company: COSTA Phone Number:

Address: Truck # and License Plate: #4 AS3145

Driver: Anthony Costa SW Haulers Permit #: 15212

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-5-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848640

	Date	Time	Scale
In:	4/5/2018	15:38:14	CENCSCALE1
Out:	4/5/2018	15:39:24	

	Lbs.	Tns
Gross:	72800.00	36.40
Tare:	27440.00	13.72
Net:	45360.00	22.68

Manifest: 1745619

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.6800	TONS

Comment:

Driver: Mark

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745619

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	72800
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27440
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	22.68

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.5.18 1405

TRANSPORTER

Company: G.A. Peak Exc. Phone Number: 215.723.7830

Address: 2850 Clymer Rd. Telford, Pa. Truck # and License Plate: #16 AG12728

Driver: Mark Atkinson (Type or Print Clearly) SW Haulers Permit #: WH6195 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/5/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/5/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-5-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848658

	Date	Time	Scale
In:	4/5/2018	15:49:16	CENCSCALE1
Out:	4/5/2018	15:51:15	

	Lbs.	Tns
Gross:	75800.00	37.90
Tare:	25320.00	12.66
Net:	50480.00	25.24

Manifest: 1745620

Vehicle ID: 02E176

Vehicle Permit: DESW-1434

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: EDP Inc dba EDP Transport

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.2400	TONS

Comment:

Driver: Dixon

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745620

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ ☐Tons ☐Yards	75800
	TARE WEIGHT: ☒ ☐Tons ☐Yards	25320
	NET WEIGHT: ☒ ☐Tons ☐Yards	25.24

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4-5-18 1410

TRANSPORTER

Company: EDP Transport Phone Number: 215 805 6774

Address: Cookeysville Truck # and License Plate: 176 / AG18295

Driver: Dixon Conrad (Type or Print Clearly) SW Haulers Permit #: DESW 1434 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dixon Conrad Date and Time: 4/5/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dixon Conrad Date and Time: 4/5/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4 5 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848663

	Date	Time	Scale
In:	4/5/2018	15:51:56	CENCSCALE1
Out:	4/5/2018	15:53:43	

Manifest: 1745621

Vehicle ID: 02E676

Vehicle Permit: DESW-1434

	Lbs.	Tns
Gross:	76680.00	38.34
Tare:	25920.00	12.96
Net:	50760.00	25.38

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: EDP Inc dba EDP Transport

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.3800	TONS

Comment:

Driver: Chris

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745621

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ Tons ☐ Yards	76690 03:45 PM 04-05-18 76690
	TARE WEIGHT: ☒ Tons ☐ Yards	25920
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards	2538

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 4-5-18 14:15

TRANSPORTER

Company: EDP Transport Phone Number: 215-805-6774

Address: Coopersburg PA Truck # and License Plate: 6076-AG62432

Driver: Chris Rhoads (Type or Print Clearly) SW Haulers Permit #: DESW-1434 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-5-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 5 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848668

	Date	Time	Scale
In:	4/5/2018	15:55:50	CENCSCALE1
Out:	4/5/2018	15:57:31	

	Lbs.	Tns
Gross:	75300.00	37.65
Tare:	25000.00	12.50
Net:	50300.00	25.15

Manifest: 1745622

Vehicle ID: 02E376

Vehicle Permit: DESW-1434

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: EDP Inc dba EDP Transport

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.1500	TONS

Comment:

Driver: Rich

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745622

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ ☐ Tons ☐ Yards	75300 ~~75320~~ 03:52 PM 04-05-18
	TARE WEIGHT: ☒ ☐ Tons ☐ Yards	25000
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ ☐ Tons ☐ Yards	25.15

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.5.18 1420

TRANSPORTER

Company: EDP Transport Phone Number: 215-805-6774

Address: Coopersburg PA Truck # and License Plate: 376 HAE7642 PA

Driver: Rich SW Haulers Permit #: DE-SW 1434

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Rich Date and Time: 4-5-18 14:20

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Rich Date and Time: 4-5-18 3:55

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 5 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848682

	Date	Time	Scale
In:	4/5/2018	16:10:06	CENCSCALE1
Out:	4/5/2018	16:11:16	

Manifest: 1745623

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	71180.00	35.59
Tare:	28180.00	14.09
Net:	43000.00	21.50

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.5000	TONS

Comment:

Driver: Catt

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745623

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	71180
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28180
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	21.50

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Gen. Mgr.

Signature: Art Countz Date and Time: 4.5.18 1435

TRANSPORTER

Company: COSTA Phone Number: 609 947-1655 COSTA

Address: Columbus NJ Truck # and License Plate: #6 AT 178E

Driver: Cliff D SW Haulers Permit #: 3580F

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4-5-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4 - 5 - 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000848687

	Date	Time	Scale
In:	4/5/2018	16:11:35	CENCSCALE1
Out:	4/5/2018	16:13:12	

Manifest: 1745612

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	72220.00	36.11
Tare:	28340.00	14.17
Net:	43880.00	21.94

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.9400	TONS

Comment:

Driver: Eric

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745612

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	72220 04:08 pm 04-05-18 72220
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28340
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	21.94

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.5.18 1430

TRANSPORTER

Company: COSTA Phone Number:

Address: Columbus NJ Truck # and License Plate: #5 AS789Y

Driver: Eric D (Type or Print Clearly) SW Haulers Permit #: 35507 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-5-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-5-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 5 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852368

	Date	Time	Scale
In:	4/11/2018	09:03:43	CENCSCALE1
Out:	4/11/2018	09:06:03	

Manifest: 1745624

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	70340.00	35.17
Tare:	28180.00	14.09
Net:	42160.00	21.08

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.0800	TONS

Comment:

Driver: Catt

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745624

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ ☐Tons ☐Yards	09:01 am04-11-18 70340 70340
	TARE WEIGHT: ☒ ☐Tons ☐Yards	38180
	NET WEIGHT: ☒ ☐Tons ☐Yards	31.08

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.11.18 0730

TRANSPORTER

Company: COSTA Phone Number:

Address: Columbus NJ Truck # and License Plate: #6 AT1798

Driver: CHIP D SW Haulers Permit #: 35807

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852371

	Date	Time	Scale
In:	4/11/2018	09:06:11	CENCSCALE1
Out:	4/11/2018	09:08:09	

Manifest: 1745625

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	74180.00	37.09
Tare:	28340.00	14.17
Net:	45840.00	22.92

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.9200	TONS

Comment:

Driver: Eric

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745625

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:03 am04-11-18 74180
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	74180
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	78340
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	77.97

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 4-11-18 0735

TRANSPORTER

Company: COSTA Phone Number:

Address: Truck # and License Plate: 5 AS789K

Driver: Eric (Type or Print Clearly) SW Haulers Permit #: 35807 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4 11 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4 11 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852392

	Date	Time	Scale
In:	4/11/2018	09:14:15	CENCSCALE1
Out:	4/11/2018	09:16:26	

	Lbs.	Tns
Gross:	72800.00	36.40
Tare:	26460.00	13.23
Net:	46340.00	23.17

Manifest: 1745626

Vehicle ID: 02BMF1

Vehicle Permit: DESW-1448

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: BMF Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.1700	TONS

Comment:

Driver: Barry

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745626

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ ☐Tons ☐Yards	09:11 am04-11-18 72800 72800
GENERATOR'S PHONE: **973-263-3900**	TARE WEIGHT: ☒ ☐Tons ☐Yards	26460
	NET WEIGHT: ☒ ☐Tons ☐Yards	23.17

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr

Signature: Art Countz Date and Time: 4.11.18 0740

TRANSPORTER

Company: EDP / BMF Phone Number: 215 805 6774

Address: Coopersburg Pa. Truck # and License Plate: BMF-1 AF7817

Driver: Barry Fehnel (Type or Print Clearly) SW Haulers Permit #: PESW 1476 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4-11-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852407

	Date	Time	Scale
In:	4/11/2018	09:23:18	CENCSCALE1
Out:	4/11/2018	09:24:29	

Manifest: 1745627

Vehicle ID: 02J01

Vehicle Permit: DESW-1460

	Lbs.	Tns
Gross:	72540.00	36.27
Tare:	25780.00	12.89
Net:	46760.00	23.38

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: J & JD Trucking Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.3800	TONS

Comment:

Driver: John

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745627

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	09:20 am04-11-18 72540 72540
	TARE WEIGHT: ☒ Tons ☐ Yards	25780
	NET WEIGHT: ☒ Tons ☐ Yards	73.38

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr

Signature: Art Countz Date and Time: 4.11.18 0747

TRANSPORTER

Company: EDP - J&D Trucking Phone Number: 215 895 6774

Address: Briar Way Coopersburg Truck # and License Plate: AF31939 PA - 01

Driver: John Nica (Type or Print Clearly) SW Haulers Permit #: 1460 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: John Nica Date and Time: Apr. 11. 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: John Nica Date and Time: Apr. 11, 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852417

	Date	Time	Scale
In:	4/11/2018	09:28:44	CENCSCALE1
Out:	4/11/2018	09:29:54	

Manifest: 1745629

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	68580.00	34.29
Tare:	27940.00	13.97
Net:	40640.00	20.32

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.3200	TONS

Comment:

Driver: Dave

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745629

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.**	GROSS WEIGHT: ☒ Tons ☐ Yards	09:25 am 04-11-18 ~~68600~~ 68580
1445 Parkway Avenue	TARE WEIGHT: ☒ Tons ☐ Yards	37940
Ewing Township, NJ 08628		
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards	30.32

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr

Signature: Art Countz Date and Time: 4.11.18 0757

TRANSPORTER

Company: Custa Haulers Phone Number:

Address: Columbus N.J. Truck # and License Plate: #3 / AS8645

Driver: DAVID E. BAKER (Type or Print Clearly) SW Haulers Permit #: 13367 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4/11/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852424

	Date	Time	Scale
In:	4/11/2018	09:31:23	CENCSCALE1
Out:	4/11/2018	09:32:31	

Manifest: 1745628

Vehicle ID: 02CH04

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	70880.00	35.44
Tare:	28460.00	14.23
Net:	42420.00	21.21

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.2100	TONS

Comment:

Driver: Calvin

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745628

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ ☐ Tons ☐ Yards	09:28 am04-11-18 70880 70880
	TARE WEIGHT: ☒ ☐ Tons ☐ Yards	28460
	NET WEIGHT: ☒ ☐ Tons ☐ Yards	31.21

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr.

Signature: Art Counts Date and Time: 4-11-18 0753

TRANSPORTER

Company: Costa Phone Number:

Address: Columbus Truck # and License Plate: 4 A5 314 5

Driver: Calvin SW Haulers Permit #: 02207

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4/11/18 3:50

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: X Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852463

	Date	Time	Scale
In:	4/11/2018	09:55:06	CENCSCALE1
Out:	4/11/2018	09:57:03	

	Lbs.	Tns
Gross:	66900.00	33.45
Tare:	28120.00	14.06
Net:	38780.00	19.39

Manifest: 1745631

Vehicle ID: 02P11

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	19.3900	TONS

Comment:

Driver: Randy

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745631

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:52 am04-11-18 66900
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	66900
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28120
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	19.39

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr

Signature: Art Countz Date and Time: 4-11-18 0808

TRANSPORTER

Company: GA Peak Phone Number: 215 723 7830

Address: 2850 Clymer Ave Telford Pa 18969 Truck # and License Plate: 11 AF39406

Driver: RANDY LEMON SW Haulers Permit #: 6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: R E Lemon Date and Time: 4-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: R E Lemon Date and Time: 4-11-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852467

	Date	Time	Scale
In:	4/11/2018	09:57:09	CENCSCALE1
Out:	4/11/2018	09:58:51	

	Lbs.	Tns
Gross:	69520.00	34.76
Tare:	27560.00	13.78
Net:	41960.00	20.98

Manifest: 1745630

Vehicle ID: 02P14

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.9800	TONS

Comment:

Driver: Griff

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745630

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:54 am04-11-18 69520
Former Delphi Trenton Facility/R.A.C.E.R.	☒ ☐Tons ☐Yards	69520
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ ☐Tons ☐Yards	27560
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ ☐Tons ☐Yards	70.98

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr

Signature: Art Countz Date and Time: 4-11-18 0403

TRANSPORTER In-7130 Out-805

Company: QA Peak Exc. Phone Number: 215 723-7830

Address: Telford PA Truck # and License Plate: 14 AF72897

Driver: griff SW Haulers Permit #: DESW1458

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Griff Date and Time: 4.11.18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Griff Date and Time: 4.11.18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852472

	Date	Time	Scale
In:	4/11/2018	09:59:34	CENCSCALE1
Out:	4/11/2018	10:00:57	

Manifest: 1745632

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	69000.00	34.50
Tare:	27440.00	13.72
Net:	41560.00	20.78

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.7800	TONS

Comment:

Driver: Mark

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745632

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ Tons ☐ Yards — 09:56 am 04-11-18 69000 / 69000
	TARE WEIGHT: ☒ Tons ☐ Yards — 37440
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards — 30.78

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

Arrive - 7130 - Depart - 8:15

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4.11.18 0812

TRANSPORTER

Company: G.A. Peak Exc. Phone Number: 215.723.7830

Address: 2850 Clymer Rd. Telford, Pa. Truck # and License Plate: #16 AG12728

Driver: Mark Atkinson (Type or Print Clearly) SW Haulers Permit #: WH6795 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/11/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852477

	Date	Time	Scale
In:	4/11/2018	10:01:15	CENCSCALE1
Out:	4/11/2018	10:02:45	

Manifest: 1745633

Vehicle ID: 02P19

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	71200.00	35.60
Tare:	27460.00	13.73
Net:	43740.00	21.87

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.8700	TONS

Comment:

Driver: Mike

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745633

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ Tons ☐ Yards	09:58 2m04-11-18 71200 71200
GENERATOR'S PHONE: **973-263-3900**	TARE WEIGHT: ☒ Tons ☐ Yards	77460
	NET WEIGHT: ☒ Tons ☐ Yards	71.87

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.11.18 0818

TRANSPORTER

Company: G.A. PEAK Phone Number: 215-723-7830

Address: 2850 CLYDE AVE TELFORD, PA Truck # and License Plate: 19 AL-54184

Driver: MIKE SNELL SW Haulers Permit #: 6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4/11/18 8:30

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852699

	Date	Time	Scale
In:	4/11/2018	11:53:57	CENCSCALE1
Out:	4/11/2018	11:55:08	

Manifest: 1745635

Vehicle ID: 02BMF1

Vehicle Permit: DESW-1448

	Lbs.	Tns
Gross:	72740.00	36.37
Tare:	26460.00	13.23
Net:	46280.00	23.14

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: BMF Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.1400	TONS

Comment:

Driver: Barry

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1745635

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	72740 11:50 am 04-11-18 72740
	TARE WEIGHT: ☒ Tons ☐ Yards	26460
	NET WEIGHT: ☒ Tons ☐ Yards	23.14

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr.

Signature: Art Counts Date and Time: 4.11.18 1031

TRANSPORTER

Company: EOF/BMF Phone Number: 215 805 6774

Address: Cooper Ln Truck # and License Plate: BM-

Driver: Burg Hernandez SW Haulers Permit #: DE 5347 48

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-11-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852717

	Date	Time	Scale
In:	4/11/2018	11:57:53	CENCSCALE1
Out:	4/11/2018	11:58:51	

Manifest: 1745636

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	71480.00	35.74
Tare:	28180.00	14.09
Net:	43300.00	21.65

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.6500	TONS

Comment:

Driver: Catt

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1745636

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.**	GROSS WEIGHT: ☒ Tons ☐ Yards	11:53 am04-11-18 71480 71480
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28180
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards	21.65

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.11.18 1033

TRANSPORTER

Company: COSTA Phone Number:

Address: Columbus NJ Truck # and License Plate: 6 AT 171E

Driver: MATT P SW Haulers Permit #: 35507

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-11-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 11 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852722

	Date	Time	Scale
In:	4/11/2018	11:58:57	CENCSCALE1
Out:	4/11/2018	12:00:52	

Manifest: 1745634

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	71460.00	35.73
Tare:	28340.00	14.17
Net:	43120.00	21.56

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.5600	TONS

Comment:

Driver: Eric

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1745634

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	71460 11:56 am 04-11-18 71460
	TARE WEIGHT: ☒ Tons ☐ Yards	28340
	NET WEIGHT: ☒ Tons ☐ Yards	21-56

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4-11-18 1027

TRANSPORTER

Company: COSTA Phone Number:

Address: Truck # and License Plate: 5 AS789X

Driver: Eric (Type or Print Clearly) SW Haulers Permit #: 35807 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4 11 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4 11 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 11 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852735

	Date	Time	Scale
In:	4/11/2018	12:07:23	CENCSCALE1
Out:	4/11/2018	12:08:24	

	Lbs.	Tns
Gross:	75660.00	37.83
Tare:	25780.00	12.89
Net:	49880.00	24.94

Manifest: 1745637

Vehicle ID: 02J01

Vehicle Permit: DESW-1460

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: J & JD Trucking Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.9400	TONS

Comment:

Driver: JD

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1745637

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	12:07 pm 04-11-18 75600 ~~75660~~ ~~75600~~
	TARE WEIGHT: ☒ Tons ☐ Yards	25780
	NET WEIGHT: ☒ Tons ☐ Yards	24.94

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.11.18 1036

TRANSPORTER

Company: EDP - JTJD Trucking Phone Number: 215 805 6774

Address: Briar Way Coopersburg Truck # and License Plate: AE31939 Pa-01

Driver: John Nice SW Haulers Permit #: 1460

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: John Nice Date and Time: Apr. 11, 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: John Nice Date and Time: Apr. 11, 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4 11 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852748

	Date	Time	Scale
In:	4/11/2018	12:16:45	CENCSCALE1
Out:	4/11/2018	12:17:36	

Manifest: 1745638

Vehicle ID: 02CH04

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	70260.00	35.13
Tare:	28460.00	14.23
Net:	41800.00	20.90

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.9000	TONS

Comment:

Driver: Calvin

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1745638

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

70260

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	12:13 PM04-11-18 70260
Former Delphi Trenton Facility/R.A.C.E.R. 1445 Parkway Avenue Ewing Township, NJ 08628	TARE WEIGHT: ☒ Tons ☐ Yards	28460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT: ☒ Tons ☐ Yards	20.90

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.11.18 1054

TRANSPORTER

Company: Costa Phone Number:

Address: Truck # and License Plate: #4 AS 3145

Driver: Calvin (Type or Print Clearly) SW Haulers Permit #: 02207 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Cal Date and Time: 4/11/18 11:06

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: X Date and Time: 4/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 11 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852834

	Date	Time	Scale
In:	4/11/2018	12:41:48	CENCSCALE1
Out:	4/11/2018	12:43:12	

Manifest: 1745641

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	76540.00	38.27
Tare:	27440.00	13.72
Net:	49100.00	24.55

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.5500	TONS

Comment:

Driver: Mark

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745641

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:39 pm04-11-18 76540
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	76540
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	37440
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	24.55

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.11.18 1130

TRANSPORTER

Company: G.A. Peak Exc. Phone Number: 215.723.7830

Address: 2850 Clymer Rd. Telford, Pa Truck # and License Plate: #16 AG12728

Driver: Mark Atkinson SW Haulers Permit #: WH6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/11/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852870

	Date	Time	Scale
In:	4/11/2018	12:56:31	CENCSCALE1
Out:	4/11/2018	12:57:46	

Manifest: 1745640

Vehicle ID: 02P14

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	73360.00	36.68
Tare:	27560.00	13.78
Net:	45800.00	22.90

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.9000	TONS

Comment:

Driver: Griff

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745640

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ ☐ Tons ☐ Yards	1215 pm04-11-18 ~~73360~~ 73360
	TARE WEIGHT: ☒ ☐ Tons ☐ Yards	27560
	NET WEIGHT: ☒ ☐ Tons ☐ Yards	22.90

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.11.18 1125

TRANSPORTER

Company: GA Peale Exc Phone Number: 215 723 7830

Address: Telford PA Truck # and License Plate: 14 AF72897

Driver: [signature] (Type or Print Clearly) SW Haulers Permit #: DESW1458 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4.11.18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4.11.18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852876

	Date	Time	Scale
In:	4/11/2018	12:58:35	CENCSCALE1
Out:	4/11/2018	13:00:18	

	Lbs.	Tns
Gross:	70080.00	35.04
Tare:	28120.00	14.06
Net:	41960.00	20.98

Manifest: 1745639

Vehicle ID: 02P11

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.9800	TONS

Comment:

Driver: Randy

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745639

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.**	GROSS WEIGHT: ☒ Tons ☐ Yards	12:55 PM 04-11-18 ~~70060~~ 70080
1445 Parkway Avenue	TARE WEIGHT: ☒ Tons ☐ Yards	78120
Ewing Township, NJ 08628		
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards	70.98

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr.

Signature: Art Counts Date and Time: 4.11.18 1120

TRANSPORTER

Company: GA Peak Phone Number: 215 723 7830

Address: 2850 Clymer Ave Telford Pa 18969 Truck # and License Plate: 11 AF 39406

Driver: RANDY LEMON SW Haulers Permit #: 6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4-11-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000852885

	Date	Time	Scale
In:	4/11/2018	13:01:06	CENCSCALE1
Out:	4/11/2018	13:02:39	

Manifest: 1745642

Vehicle ID: 02P19

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	75720.00	37.86
Tare:	27460.00	13.73
Net:	48260.00	24.13

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.1300	TONS

Comment:

Driver: Mike

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745642

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:58 PM 04-11-18 ~~75700~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ ☐ Tons ☐ Yards	75720
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ ☐ Tons ☐ Yards	71460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ ☐ Tons ☐ Yards	4.13

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.11.18 1135

TRANSPORTER

Company: G.A. Peak Phone Number: 215-723-7830

Address: 7450 Clover Ave Telford, PA Truck # and License Plate: 19 AG-5484

Driver: Mike Snell SW Haulers Permit #: 6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4/11/18 11:35

DESTINATION

~~I hereby~~ certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853019

	Date	Time	Scale
In:	4/11/2018	14:27:43	CENCSCALE1
Out:	4/11/2018	14:28:38	

Manifest: 1745644

Vehicle ID: 02BMF1

Vehicle Permit: DESW-1448

	Lbs.	Tns
Gross:	77800.00	38.90
Tare:	26460.00	13.23
Net:	51340.00	25.67

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: BMF Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.6700	TONS

Comment:

Driver: Barry

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1745644

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ ☐ Tons ☐ Yards — 02:22 pm 04-11-18 27800 77800
	TARE WEIGHT: ☒ ☐ Tons ☐ Yards — 26460
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ ☐ Tons ☐ Yards — 25.67

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer — Title: Con. Mgr.

Signature: Art Counts — Date and Time: 4.11.18 1310

TRANSPORTER

Company: EPI / BMI — Phone Number: 215 801 6774

Address: Coopersburg Pa. — Truck # and License Plate: BMI-1 AF73178

Driver: Barry Fenner (Type or Print Clearly) — SW Haulers Permit #: DE SW 1448 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: — Date and Time: 4-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: — Date and Time: 4-11-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: — Date and Time: 4 11 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853027

	Date	Time	Scale
In:	4/11/2018	14:33:47	CENCSCALE1
Out:	4/11/2018	14:34:57	

Manifest: 1745643

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	70800.00	35.40
Tare:	27940.00	13.97
Net:	42860.00	21.43

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.4300	TONS

Comment:

Driver: Dave

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745643

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	70800
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27940
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	21.43

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.11.18 1140

TRANSPORTER

Company: Costa Hauling Phone Number:

Address: Columbus N.J. Truck # and License Plate: #3 IAS 8641

Driver: David Baker SW Haulers Permit #: 13263
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4/11/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853042

	Date	Time	Scale
In:	4/11/2018	14:41:33	CENCSCALE1
Out:	4/11/2018	14:43:34	

	Lbs.	Tns
Gross:	73140.00	36.57
Tare:	28180.00	14.09
Net:	44960.00	22.48

Manifest: 1745646

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.4800	TONS

Comment:

Driver: Catt

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745646

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	73140
	TARE WEIGHT: ☒ Tons ☐ Yards	28180
	NET WEIGHT: ☒ Tons ☐ Yards	22.48

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.11.18 1317

TRANSPORTER

Company: CoSTA Phone Number:

Address: Truck # and License Plate: 6 AT272E

Driver: Cat (Type or Print Clearly) SW Haulers Permit #: 35807 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4 11 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4 11 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853047

	Date	Time	Scale
In:	4/11/2018	14:45:38	CENCSCALE1
Out:	4/11/2018	14:46:53	

	Lbs.	Tns
Gross:	73160.00	36.58
Tare:	28340.00	14.17
Net:	44820.00	22.41

Manifest: 1745645

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.4100	TONS

Comment:

Driver: Eric

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745645

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	02:42 PM 04-11-18 73160
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28340
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	22.41

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.11.18 1313

TRANSPORTER

Company: CostA Phone Number:

Address: Truck # and License Plate: 5 A5789X

Driver: ERIC (Type or Print Clearly) SW Haulers Permit #: 55807 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4 11 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4 11 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853052

	Date	Time	Scale
In:	4/11/2018	14:47:49	CENCSCALE1
Out:	4/11/2018	14:49:32	

	Lbs.	Tns
Gross:	79260.00	39.63
Tare:	25780.00	12.89
Net:	53480.00	26.74

Manifest: 1745647

Vehicle ID: 02J01

Vehicle Permit: DESW-1460

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: J & JD Trucking Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	26.7400	TONS

Comment:

Driver: John

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745647

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	02:44 pm04-11-18 79260 79260
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25780
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	26.74

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr.

Signature: Art Counts Date and Time: 4-11-18 1320

TRANSPORTER

Company: EDP - J+JD Trucking Phone Number: 215 805 6774

Address: Briar Way Coopersburg Truck # and License Plate: AF31939 Pa-01

Driver: John Nice (Type or Print Clearly) SW Haulers Permit #: 1460 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: John Nice Date and Time: Apr. 11, 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: John Nice Date and Time: Apr. 11, 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853074

	Date	Time	Scale
In:	4/11/2018	15:07:03	CENCSCALE1
Out:	4/11/2018	15:08:26	

	Lbs.	Tns
Gross:	74000.00	37.00
Tare:	28460.00	14.23
Net:	45540.00	22.77

Manifest: 1745649

Vehicle ID: 02CH04

Vehicle Permit: DESW-1521

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.7700	TONS

Comment:

Driver: Calvin

Facility: _____
Napier, Jim

CLEAN

Manifest # 1745649

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	03:03 pm04-11-18 ~~74020~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	74060
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	78460
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	22.77

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr.

Signature: Art Counts Date and Time: 4·11·18 1340

TRANSPORTER

Company: Coste Phone Number:

Address: Truck # and License Plate: 4 A53145

Driver: Colvin SW Haulers Permit #: 02207

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Col Date and Time: 4/11/18 1:45

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Col Date and Time: 4/11/18 1445

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853075

	Date	Time	Scale
In:	4/11/2018	15:09:14	CENCSCALE1
Out:	4/11/2018	15:10:52	

Manifest: 1745648

Vehicle ID: 02CH07

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	76340.00	38.17
Tare:	26060.00	13.03
Net:	50280.00	25.14

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.1400	TONS

Comment:

Driver: Mike

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745648

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ ☐ Tons ☐ Yards	07:06 pm04-11-18 76340 76340
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ ☐ Tons ☐ Yards	26060
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ ☐ Tons ☐ Yards	25.14

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 4-11-18 1335

TRANSPORTER

Company: Costa Hauler Phone Number: 856-341-4412

Address: 11 Fairmont Drive, Columbus, NJ Truck # and License Plate: #7 AT222N

Driver: Michael Carter (Type or Print Clearly) SW Haulers Permit #: _____ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-11 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4-11-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853083

	Date	Time	Scale
In:	4/11/2018	15:15:06	CENCSCALE1
Out:	4/11/2018	15:19:29	

Manifest: 1745650

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	72340.00	36.17
Tare:	27440.00	13.72
Net:	44900.00	22.45

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.4500	TONS

Comment:

Driver: Mark

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745650

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ Tons ☐ Yards	72340
	TARE WEIGHT: ☒ Tons ☐ Yards	27440
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards	22.45

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.11.18 1400

TRANSPORTER

Company: G.A Peak Exc. Phone Number: 215 723-7830

Address: 285D Clymer Rd. Telford, Pa Truck # and License Plate: #16 AG12728

Driver: Mark Atkinson SW Haulers Permit #: WH6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/11/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 11 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853105

	Date	Time	Scale
In:	4/11/2018	15:41:41	CENCSCALE1
Out:	4/11/2018	15:43:24	

	Lbs.	Tns
Gross:	72100.00	36.05
Tare:	28120.00	14.06
Net:	43980.00	21.99

Manifest: 1745651

Vehicle ID: 02P11

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.9900	TONS

Comment:

Driver: Randy

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1745651

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	03:36 PM04-11-18 ~~72100~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	72100
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	50120
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	21.99

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4.11.18 1420

TRANSPORTER

Company: GA Peak Phone Number: 215 723 7830

Address: 2850 CLYMER AVE Telford Pa 18969 Truck # and License Plate: 11 AF 39406

Driver: RANDY LEMON SW Haulers Permit #: 6785

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: REL Date and Time: 4-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: RELee Date and Time: 4/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853111

	Date	Time	Scale
In:	4/11/2018	15:52:18	CENCSCALE1
Out:	4/11/2018	15:54:05	

Manifest: 1749010

Vehicle ID: 02P19

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	78040.00	39.02
Tare:	27460.00	13.73
Net:	50580.00	25.29

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.2900	TONS

Comment:

Driver: Mike

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749010

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	78040 03:47 PM 04-11-18 ~~75000~~
	TARE WEIGHT: ☒ Tons ☐ Yards	27460
	NET WEIGHT: ☒ Tons ☐ Yards	25.29

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 4-11-18 1430

TRANSPORTER

Company: G.A. PEAK Phone Number: 215-723-7830

Address: 2950 CLIVNER AVE TELFORD Truck # and License Plate: 19 - AG-54184

Driver: MIKE SNELL SW Haulers Permit #: 6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4/11/18 14:30

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 / 11 / 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853113

	Date	Time	Scale
In:	4/11/2018	15:55:48	CENCSCALE1
Out:	4/11/2018	15:57:11	

Manifest: 1745652

Vehicle ID: 02P14

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	76600.00	38.30
Tare:	27560.00	13.78
Net:	49040.00	24.52

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.5200	TONS

Comment:

Driver: Griff

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1745652

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ Tons ☐ Yards	13:51 PM04-11-18 76580 76600
	TARE WEIGHT: ☒ Tons ☐ Yards	27560
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT: ☒ Tons ☐ Yards	24.52

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr.

Signature: Art Counts Date and Time: 4.11.18 1425

TRANSPORTER

Company: QA Peak Exc. Phone Number: 215 723 7830

Address: Telford PA Truck # and License Plate: 14 AF72197

Driver: Jr. H (Type or Print Clearly) SW Haulers Permit #: DESW1458 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Jr. H Date and Time: 4.11.18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Jr. H Date and Time: 4.11.18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4 11 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853479

	Date	Time	Scale
In:	4/12/2018	09:17:07	CENCSCALE1
Out:	4/12/2018	09:19:15	

Manifest: 1749012

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

	Lbs.	Tns
Gross:	72680.00	36.34
Tare:	25140.00	12.57
Net:	47540.00	23.77

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.7700	TONS

Comment:

Driver: Dennis

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749012

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	09:13 am 04-12-18 ~~72680~~ 72680
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25140
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	23.77

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.12.18 0743

TRANSPORTER

Company: EDP TRANSPORT / Solebury Const - Frc Phone Number: 215 805-6774

Address: Coppersburg PA 18036 Truck # and License Plate: TK-5 AG69367

Driver: Dennis Brady (Type or Print Clearly) SW Haulers Permit #: WH- 19086 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dennis Brady Date and Time: 4/12/18 7:50

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dennis Brady Date and Time: 4/12/18 7:50

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853533

	Date	Time	Scale
In:	4/12/2018	09:39:05	CENCSCALE1
Out:	4/12/2018	09:41:13	

Manifest: 1749011

Vehicle ID: 02E176

Vehicle Permit: DESW-1434

	Lbs.	Tns
Gross:	74020.00	37.01
Tare:	25320.00	12.66
Net:	48700.00	24.35

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: EDP Inc dba EDP Transport

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.3500	TONS

Comment:

Driver: Dixon

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749011

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:35 on 04-12-18 74020
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	74020
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	59370
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	14.65

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Ewing Title: Con Mgr

Signature: Art Counts Date and Time: 4-12-18 0735

TRANSPORTER

Company: EDP TRANSPORT Phone Number: 215 805 6774

Address: Coolersburg Truck # and License Plate: 176 MG 18298

Driver: Dixon Conrad (Type or Print Clearly) SW Haulers Permit #: DESW 1434 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dixon Conrad Date and Time: 4/12/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dixon Conrad Date and Time: 4/12/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857720

	Date	Time	Scale
In:	4/18/2018	11:47:15	CENCSCALE1
Out:	4/18/2018	11:48:55	

Manifest: 1749048

Vehicle ID: 02BMF1

Vehicle Permit: DESW-1448

	Lbs.	Tns
Gross:	70620.00	35.31
Tare:	26460.00	13.23
Net:	44160.00	22.08

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: BMF Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.0800	TONS

Comment:

Driver: Barry

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749048

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret — 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland — 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle — 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington — 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia — 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey — 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania — 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.**	GROSS WEIGHT: ☒ Tons ☐ Yards	11:47 04-18-18 70670
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	36460
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards	34.08

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.18.18

TRANSPORTER

Company: EDP IGMF Phone Number: 215 885 6774

Address: 200 Pusbury Pa. Truck # and License Plate: BMF-1 AF78178

Driver: Isaac Fernandez SW Haulers Permit #: DESW1418

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-18-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-18-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-18-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857755

	Date	Time	Scale
In:	4/18/2018	12:02:23	CENCSCALE1
Out:	4/18/2018	12:03:59	

	Lbs.	Tns
Gross:	76580.00	38.29
Tare:	25140.00	12.57
Net:	51440.00	25.72

Manifest: 1749049

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.7200	TONS

Comment:

Driver: Dennis

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749049

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	11:59 4-18-18 76580 76580
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	75140
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	75.72

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Lountz for Racer Title: Con Mgr

Signature: Art Lountz Date and Time: 4.18.18

TRANSPORTER

Company: EDP Transport / Solebury Const Inc Phone Number: 215-805-6774

Address: Coppersburg PA 18036 Truck # and License Plate: TK-5 AG69367

Driver: Dennis Bray (Type or Print Clearly) SW Haulers Permit #: WH-19056 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dennis Bray Date and Time: 4/18/18 10:45

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dennis Bray Date and Time: 4/18/18 10:45

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-18-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857767

	Date	Time	Scale
In:	4/18/2018	12:08:46	CENCSCALE1
Out:	4/18/2018	12:10:11	

	Lbs.	Tns
Gross:	75160.00	37.58
Tare:	25140.00	12.57
Net:	50020.00	25.01

Manifest: 1749050

Vehicle ID: 02DRW91

Vehicle Permit: DESW-1494

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: DRW Hauling

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.0100	TONS

Comment:

Driver: Dave

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749050

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	12105 ~~04-13-18~~ 75160 75160
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25140
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	25.01

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.18.18

TRANSPORTER

Company: EDP/Ola Phone Number: 215-805-6724

Address: Easton, PA Truck # and License Plate: 9C-VAF8341

Driver: Brandon (Type or Print Clearly) SW Haulers Permit #: DESW1454 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-18-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857792

	Date	Time	Scale
In:	4/18/2018	12:23:28	CENCSCALE1
Out:	4/18/2018	12:24:31	

	Lbs.	Tns
Gross:	72460.00	36.23
Tare:	27460.00	13.73
Net:	45000.00	22.50

Manifest: 1749051

Vehicle ID: 02P19

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.5000	TONS

Comment:

Driver: Mike

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749051

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	12:18 PM 04-18-18 ~~72460~~ 72460
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	2250

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr.

Signature: Art Countz Date and Time: 4-18-18

TRANSPORTER

Company: G. A. PEAK Phone Number: 215-723-7830

Address: 2550 CLYMER AVE TELFORD PA Truck # and License Plate: 19 AG 54184

Driver: MIKE SWELL SW Haulers Permit #: 6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4/18/18 11:00

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4/18/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 18 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857797

	Date	Time	Scale
In:	4/18/2018	12:26:31	CENCSCALE1
Out:	4/18/2018	12:27:52	

	Lbs.	Tns
Gross:	77980.00	38.99
Tare:	25420.00	12.71
Net:	52560.00	26.28

Manifest: 1749052

Vehicle ID: 02TDP201

Vehicle Permit: DESW-1657

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Two Dogs Propane, LLC / Progressive Prop

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	26.2800	TONS

Comment:

Driver: Al

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749052

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	12:22 PM 04-18-18 77980 77980
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25420
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	26.28

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4.18.18

TRANSPORTER

Company: EDP / Progressive Prepare Phone Number: 215-805-6774

Address: 294 Cherry Rd Quakertown PA Truck # and License Plate: 201 AG60335

Driver: Alan Tate SW Haulers Permit #: WH18505

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4/18/18 11:05

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-18-18 11:05

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 18 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857810

	Date	Time	Scale
In:	4/18/2018	12:38:02	CENCSCALE1
Out:	4/18/2018	12:39:58	

	Lbs.	Tns
Gross:	67860.00	33.93
Tare:	28120.00	14.06
Net:	39740.00	19.87

Manifest: 1749054

Vehicle ID: 02P11

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	19.8700	TONS

Comment:

Driver: Randy

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749054

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	12:34 PM 04-18-18 67860 67860
	TARE WEIGHT: ☒ Tons ☐ Yards	78170
	NET WEIGHT: ☒ Tons ☐ Yards	19.87

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.18.18

TRANSPORTER

Company: GA Peak Phone Number: 215 723 7830

Address: 2850 Clymer Ave Telford Pa 18969 Truck # and License Plate: 11 AF 39406

Driver: RANDY LEMON (Type or Print Clearly) SW Haulers Permit #: 6795 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: R E Lemon Date and Time: 4-18-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: R E Lemon Date and Time: 4-18-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-18-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857814

	Date	Time	Scale
In:	4/18/2018	12:40:29	CENCSCALE1
Out:	4/18/2018	12:42:07	

Manifest: 1749053

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	74580.00	37.29
Tare:	27440.00	13.72
Net:	47140.00	23.57

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.5700	TONS

Comment:

Driver: Mark

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749053

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:36 pm04-18-18 ~~74600~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	74580
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	71440
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	73.57

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: _____

TRANSPORTER

Company: G.A. Peak Exp. Phone Number: 215.723.7830

Address: 2850 Clymer Rd. Telford Pa. Truck # and License Plate: #16 AG12728

Driver: Mark Atkinson SW Haulers Permit #: WH6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/18/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/18/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-18-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857979

	Date	Time	Scale
In:	4/18/2018	14:17:18	CENCSCALE1
Out:	4/18/2018	14:18:06	

Manifest: 1749056

Vehicle ID: 02CH07

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	71500.00	35.75
Tare:	26060.00	13.03
Net:	45440.00	22.72

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.7200	TONS

Comment:

Driver: Mike

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749056

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	71500
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	02:12 pm04-18-18 71500
1445 Parkway Avenue	TARE WEIGHT:	26060
Ewing Township, NJ 08628	☒ Tons ☐ Yards	
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	22.72
	☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Cuentz for Racer Title: Con Mgr

Signature: Art Cuentz Date and Time: 4.18.18

TRANSPORTER

Company: Costa Haulers Phone Number: 856-341-4412

Address: 11 Fairmont Drive Columbus, NJ Truck # and License Plate: #7 AT222N

Driver: Michael Cortes SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-18-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4-18-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4 18 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857985

	Date	Time	Scale
In:	4/18/2018	14:20:10	CENCSCALE1
Out:	4/18/2018	14:21:08	

Manifest: 1749057

Vehicle ID: 02CH04

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	69340.00	34.67
Tare:	28460.00	14.23
Net:	40880.00	20.44

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.4400	TONS

Comment:

Driver: Calvin

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749057

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	02:15 PM04-18-18 ~~69360~~ 69340
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	40.44

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.18.18

TRANSPORTER

Company: Costa Phone Number:

Address: Truck # and License Plate: 4 AS 314 SA

Driver: Calvin SW Haulers Permit #: 02207

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: CP Date and Time: 4/18/18 1:06

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: CP Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 18 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857992

	Date	Time	Scale
In:	4/18/2018	14:23:42	CENCSCALE1
Out:	4/18/2018	14:24:43	

Manifest: 1749055

Vehicle ID: 02AG19

Vehicle Permit: DESW-1362

	Lbs.	Tns
Gross:	76060.00	38.03
Tare:	27420.00	13.71
Net:	48640.00	24.32

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Agliano Brothers Trucking

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.3200	TONS

Comment:

Driver: Jared

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749055

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	76060 02:19 PM04-18-18 76060
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27420
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	24.32

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4-18-18

TRANSPORTER

Company: Agliano Brothers Trucking Phone Number: 484 942 9997

Address: 298 Stone Rd Barto, PA 19504 Truck # and License Plate: 19 / AF - 81766

Driver: Jared Reid (Type or Print Clearly) SW Haulers Permit #: 1362 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Jared Reid Date and Time: 4/18/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Jared Reid Date and Time: 4/19/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4 18 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000858001

	Date	Time	Scale
In:	4/18/2018	14:26:20	CENCSCALE1
Out:	4/18/2018	14:29:28	

Manifest: 1749059

Vehicle ID: 02BMF1

Vehicle Permit: DESW-1448

	Lbs.	Tns
Gross:	77040.00	38.52
Tare:	26460.00	13.23
Net:	50580.00	25.29

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: BMF Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.2900	TONS

Comment:

Driver: Barry

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749059

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	02:02 PM 04-18-18 77040
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	
1445 Parkway Avenue	TARE WEIGHT:	26460
Ewing Township, NJ 08628	☒ Tons ☐ Yards	
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	25.29
	☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.18.18

TRANSPORTER

Company: EDP / BMF Phone Number: 215 801 6771

Address: Coopersburg Pa Truck # and License Plate: BMF-1 AF7817X

Driver: Ezra Hendricks SW Haulers Permit #: DE SW14-16

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4-18-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4-18-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4 18 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000858004

	Date	Time	Scale
In:	4/18/2018	14:31:14	CENCSCALE1
Out:	4/18/2018	14:32:35	

Manifest: 1749058

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	73520.00	36.76
Tare:	27940.00	13.97
Net:	45580.00	22.79

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.7900	TONS

Comment:

Driver: Dave

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749058

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards TARE WEIGHT: ☒ Tons ☐ Yards NET WEIGHT: ☒ Tons ☐ Yards	12:27 PM 04-13-18 ~~77500~~ 73500 27940 22.79

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT Incomplete and or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.18.18

TRANSPORTER

Company: COSTA Hauling Phone Number:

Address: Columbus N.J Truck # and License Plate: #3 IA 58643

Driver: DAVID BAKER SW Haulers Permit #: 13763

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4/18/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4/18/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4/18/18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000858014

	Date	Time	Scale
In:	4/18/2018	14:39:51	CENCSCALE1
Out:	4/18/2018	14:40:54	

Manifest: 1749061

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	76400.00	38.20
Tare:	28180.00	14.09
Net:	48220.00	24.11

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.1100	TONS

Comment:

Driver: Costa

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749061

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	02:35 PM04-16-18 76400 76400
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28180
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	24.11

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4.18.18

TRANSPORTER

Company: CosTA Phone Number:

Address: Truck # and License Plate: 6 AT 272E

Driver: T CosTA (Type or Print Clearly) SW Haulers Permit #: 35807 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4 18 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4 18 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 18 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000858021

	Date	Time	Scale
In:	4/18/2018	14:43:00	CENCSCALE1
Out:	4/18/2018	14:45:21	

Manifest: 1749060

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	72060.00	36.03
Tare:	28340.00	14.17
Net:	43720.00	21.86

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.8600	TONS

Comment:

Driver: Eric

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749060

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	0213 Pm04-18-18 ~~72060~~ 72060
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28340
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	21.86

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr.

Signature: Art Counts Date and Time: 4.18.18

TRANSPORTER

Company: CostA Phone Number:

Address: Truck # and License Plate: 5 AS79x

Driver: Eric SW Haulers Permit #: 3587

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4 18 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4 18 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 18 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000858026

	Date	Time	Scale
In:	4/18/2018	14:52:04	CENCSCALE1
Out:	4/18/2018	14:52:55	

Manifest: 1749062

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

	Lbs.	Tns
Gross:	77360.00	38.68
Tare:	25140.00	12.57
Net:	52220.00	26.11

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	26.1100	TONS

Comment:

Driver: Dennis

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749062

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	77360
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25.40
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	26.11

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr.

Signature: Art Counts Date and Time: 4.18.18

TRANSPORTER

Company: EDP TRANSPORT / Salebury Const Inc Phone Number: 215-805-6774

Address: Coppersburg PA 18036 Truck # and License Plate: TK-5 AG693607

Driver: Dennis Brady (Type or Print Clearly) SW Haulers Permit #: WH-19086 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dennis Brady Date and Time: 4/18/18 1:40

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dennis Brady Date and Time: 4/18/18 1:40

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4 18 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000858031

	Date	Time	Scale
In:	4/18/2018	14:57:07	CENCSCALE1
Out:	4/18/2018	14:57:59	

	Lbs.	Tns
Gross:	75680.00	37.84
Tare:	25140.00	12.57
Net:	50540.00	25.27

Manifest: 1749063

Vehicle ID: 02DRW91

Vehicle Permit: DESW-1494

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: DRW Hauling

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.2700	TONS

Comment:

Driver: Dave

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749063

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	01:51 PM04-18-18 75680 75690
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25140
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	25.27

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr.

Signature: Art Countz Date and Time: 4.18.18

TRANSPORTER

Company: CDR Phone Number: 215-805-6774

Address: Feasterville Truck # and License Plate: 9L-AF-83411

Driver: Dave Wilson SW Haulers Permit #: PA SW 1494

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-18-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4 18 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000858051

	Date	Time	Scale
In:	4/18/2018	15:25:06	CENCSCALE1
Out:	4/18/2018	15:25:52	

	Lbs.	Tns
Gross:	78220.00	39.11
Tare:	25420.00	12.71
Net:	52800.00	26.40

Manifest: 1749064

Vehicle ID: 02TDP201

Vehicle Permit: DESW-1657

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Two Dogs Propane, LLC / Progressive Prop

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	26.4000	TONS

Comment:

Driver: Al

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749064

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	03:20 pm 04-18-18 78220 78220
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25420
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	26 40

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4.18.18

TRANSPORTER

Company: EQP / Progressive Prepare Phone Number: 215-805-6774

Address: 34 E Highway Rd Quakertown PA Truck # and License Plate: 201 AG 60235

Driver: Alan Tate (Type or Print Clearly) SW Haulers Permit #: WH 18505 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-18-18 710

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-18-18 710

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 18 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000858061

	Date	Time	Scale
In:	4/18/2018	15:34:35	CENCSCALE1
Out:	4/18/2018	15:35:31	

Manifest: 1749065

Vehicle ID: 02P19

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	76920.00	38.46
Tare:	27460.00	13.73
Net:	49460.00	24.73

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.7300	TONS

Comment:

Driver: Mike

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749065

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	03:30 PM 04-18-18 ~~76940~~ 76920
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	24.73

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr

Signature: Art Countz Date and Time: 4.18.18

TRANSPORTER

Company: G. A. Peak Phone Number: 215-723-7830

Address: 7950 Dyer Ave Telford PA Truck # and License Plate: 19 AL 54184

Driver: MIKE SNELL SW Haulers Permit #: 6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 2:15 4/18/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4/18/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 18 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000858066

	Date	Time	Scale
In:	4/18/2018	15:38:38	CENCSCALE1
Out:	4/18/2018	15:39:29	

	Lbs.	Tns
Gross:	78900.00	39.45
Tare:	27440.00	13.72
Net:	51460.00	25.73

Manifest: 1749066

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.7300	TONS

Comment:

Driver: Mark

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 1749066

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	07:34 pm04-18-18 73900 78900
	TARE WEIGHT: ☒ Tons ☐ Yards	27440
	NET WEIGHT: ☒ Tons ☐ Yards	25.73

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr.
Signature: Art Counts Date and Time: 4.18.18

TRANSPORTER

Company: G.A. Peak Exc. Phone Number: 215.723.7830
Address: 2250 Clymer Rd. Telford, Pa Truck # and License Plate: #16 AG12728
Driver: Mark Atkinson SW Haulers Permit #: WH6795
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/18/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/18/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 18 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000858067

	Date	Time	Scale
In:	4/18/2018	15:42:23	CENCSCALE1
Out:	4/18/2018	15:43:10	

	Lbs.	Tns
Gross:	71860.00	35.93
Tare:	28120.00	14.06
Net:	43740.00	21.87

Manifest: 1749067

Vehicle ID: 02P11

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.8700	TONS

Comment:

Driver: Randy

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749067

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	03:38 pm04-18-18 71860 71860
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	
1445 Parkway Avenue	TARE WEIGHT:	28120
Ewing Township, NJ 08628	☒ Tons ☐ Yards	
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	21.87
	☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4.18.18

TRANSPORTER

Company: GA Peak Phone Number: 215 723 7830

Address: 2850 Clymer Ave Telford Pa 18969 Truck # and License Plate: A 11 AF 39406

Driver: RANDY LEMON SW Haulers Permit #: 6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-18-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-18-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 18 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000862833

	Date	Time	Scale
In:	4/25/2018	09:07:56	CENCSCALE1
Out:	4/25/2018	09:08:50	

Manifest: 1749068

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	75240.00	37.62
Tare:	28180.00	14.09
Net:	47060.00	23.53

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.5300	TONS

Comment:

Driver: Costa

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749068

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	09:03 am 04-25-18 75240
Former Delphi Trenton Facility/R.A.C.E.R.		
1445 Parkway Avenue	TARE WEIGHT: ☒ Tons ☐ Yards	28180
Ewing Township, NJ 08628		
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards	23.53

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4.25.18

TRANSPORTER

Company: COSTO Phone Number:

Address: Truck # and License Plate: #6 AS272E

Driver: Antonio Costo (Type or Print Clearly) SW Haulers Permit #: 15212 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-25-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-25-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 25 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000862840

	Date	Time	Scale
In:	4/25/2018	09:13:06	CENCSCALE1
Out:	4/25/2018	09:14:20	

	Lbs.	Tns
Gross:	75840.00	37.92
Tare:	26060.00	13.03
Net:	49780.00	24.89

Manifest: 1749069

Vehicle ID: 02CH07

Vehicle Permit: DESW-1521

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.8900	TONS

Comment:

Driver: Mike

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749069

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	09:09 on 04-25-18 ~~75000~~ 75840
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	76060
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	74.89

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4/25/18

TRANSPORTER

Company: Costa Haulers Phone Number: 856-341-4412

Address: 11 Fairmont Drive, Columbus NJ Truck # and License Plate: #7 AT222N

Driver: Michael Carter (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-25-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-25-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-25-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000862873

	Date	Time	Scale
In:	4/25/2018	09:40:27	CENCSCALE1
Out:	4/25/2018	09:41:50	

Manifest: 1749070

Vehicle ID: 02P12

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	72580.00	36.29
Tare:	26700.00	13.35
Net:	45880.00	22.94

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.9400	TONS

Comment:

Driver: Randy

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749070

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:37 am04-25-18 72580
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	72580
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	36700
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	35.94

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Lountz for Racer Title: Con Mgr

Signature: Art Lountz Date and Time: 4.25.18 7:47

TRANSPORTER IN-7:30 OUT-7:47

Company: G.A. Pearl Phone Number: 215-723-7830

Address: Telford PA Truck # and License Plate: #12 A6458C2 PA

Driver: Randy Smith SW Haulers Permit #: DESW 1458

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Randy Smith Date and Time: 04/25/2018 7:47 AM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Randy Smith Date and Time: 04/25/2018 9:37AM

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-25-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000871075

	Date	Time	Scale
In:	5/7/2018	09:01:07	CENCSCALE1
Out:	5/7/2018	09:06:30	

Manifest: 1749071

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	69920.00	34.96
Tare:	27940.00	13.97
Net:	41980.00	20.99

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.9900	TONS

Comment:

Driver: Dave

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749071

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:
Former Delphi Trenton Facility/R.A.C.E.R.
1445 Parkway Avenue
Ewing Township, NJ 08628
GENERATOR'S PHONE: **973-263-3900**

GROSS WEIGHT: ☒ Tons ☐ Yards — 69920
TARE WEIGHT: ☒ Tons ☐ Yards — 27910
NET WEIGHT: ☒ Tons ☐ Yards — 20.99

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr
Signature: Art Countz Date and Time: 5/7/18

TRANSPORTER

Company: Custom Haulers Phone Number:
Address: Columbus NJ Truck # and License Plate: #3 / AS8648
Driver: David Fagen (Type or Print Clearly) SW Haulers Permit #: 13363 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5/7/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5/7/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 7 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000871095

	Date	Time	Scale
In:	5/7/2018	09:17:40	M
Out:	5/7/2018	09:18:07	

Manifest: 1749072

Vehicle ID: 02CH07

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	75880.00	37.94
Tare:	26060.00	13.03
Net:	49820.00	24.91

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.9100	TONS

Comment:

Driver: Mike

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749072

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	[illegible]
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	26060
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	2491

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr
Signature: Art Countz Date and Time: 5/7/18

TRANSPORTER

Company: Costa Haulers Phone Number: 856-341-4412
Address: 11 Fairmount Drive, Columbus, NJ Truck # and License Plate: #7 AT222N
Driver: Michael Carter SW Haulers Permit #:
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5-7-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5-7-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5 7 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000871305

	Date	Time	Scale
In:	5/7/2018	11:10:24	CENCSCALE1
Out:	5/7/2018	11:11:36	

Manifest: 1749073

Vehicle ID: 02CH04

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	75800.00	37.90
Tare:	28460.00	14.23
Net:	47340.00	23.67

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.6700	TONS

Comment:

Driver: Tony

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749073

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	75800
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	73.67

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT -- Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5/7/18

TRANSPORTER

Company: COSTA Phone Number:

Address: Truck # and License Plate: #4 AS3145

Driver: Anthony Costa (Type or Print Clearly) SW Haulers Permit #: 1512 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5-7-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5-7-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5-7-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000871339

	Date	Time	Scale
In:	5/7/2018	11:31:58	CENCSCALE1
Out:	5/7/2018	11:34:02	

Manifest: 1749074

Vehicle ID: 02CH07

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	77060.00	38.53
Tare:	26060.00	13.03
Net:	51000.00	25.50

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.5000	TONS

Comment:

Driver: Mike

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749074

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	11:28 am05-07-18 77080 77060
	TARE WEIGHT: ☒ Tons ☐ Yards	76060
	NET WEIGHT: ☒ Tons ☐ Yards	75.50

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Cuentz for Racer Title: Con Mgr

Signature: Art Cuentz Date and Time: 5-7-18

TRANSPORTER

Company: Costa Haulers Phone Number: 856-341-4412

Address: 11 Fairmont Drive, Columbus, NJ Truck # and License Plate: #7 AT2227N

Driver: Michael Carter SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Michael Carter Date and Time: 5-7-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5-7-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-7-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000871375

	Date	Time	Scale
In:	5/7/2018	11:54:42	CENCSCALE1
Out:	5/7/2018	11:55:32	

	Lbs.	Tns
Gross:	70820.00	35.41
Tare:	27940.00	13.97
Net:	42880.00	21.44

Manifest: 1749075

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.4400	TONS

Comment:

Driver: Dave

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749075

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	70820 11:50 EN05-07-18 70820
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27940
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	21.44

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Corp Mgr

Signature: Art Counts Date and Time: 5/7/18

TRANSPORTER

Company: COSTA HAULERS Phone Number:

Address: Columbus Truck # and License Plate: 43 / AS8648

Driver: DAVID E. [illegible] SW Haulers Permit #: 13363

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5/7/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5/7/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5 7 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000871636

	Date	Time	Scale
In:	5/7/2018	14:40:45	CENCSCALE1
Out:	5/7/2018	14:41:31	

Manifest: 1749077

Vehicle ID: 02CH07

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	76940.00	38.47
Tare:	26060.00	13.03
Net:	50880.00	25.44

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.4400	TONS

Comment:

Driver: Mike

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749077

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	76940 02136 PRO5-07-18 75340
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	26060
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	2544

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 5-7-18

TRANSPORTER

Company: Costa Haulers Phone Number: 856-341-4412

Address: 11 Fairmont Drive, Columbus, NJ Truck # and License Plate: #7 AT 220N

Driver: Michael Carter SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5-7-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5-7-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5 7 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000871646

	Date	Time	Scale
In:	5/7/2018	14:45:21	CENCSCALE1
Out:	5/7/2018	14:46:21	

Manifest: 1749076

Vehicle ID: 02CH04

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	76420.00	38.21
Tare:	28460.00	14.23
Net:	47960.00	23.98

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.9800	TONS

Comment:

Driver: Tony

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749076

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	76420
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28460
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	23.98

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5-7-18

TRANSPORTER

Company: COSTA Phone Number:

Address: Truck # and License Plate: #4 AS3145

Driver: Anthony COSTA (Type or Print Clearly) SW Haulers Permit #: 15218 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5-7-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5-7-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 7 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000871669

	Date	Time	Scale
In:	5/7/2018	15:02:04	CENCSCALE1
Out:	5/7/2018	15:02:57	

Manifest: 1749078

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	72100.00	36.05
Tare:	27940.00	13.97
Net:	44160.00	22.08

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.0800	TONS

Comment:

Driver: Dave

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749078

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	73160
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27940
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	22.08

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 5-7-18

TRANSPORTER

Company: COSTA Haulers Phone Number:

Address: Columbia NJ Truck # and License Plate: #31 AS864B

Driver: DAVID BAHO SW Haulers Permit #: 13263

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5-7-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5-7-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 7 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000871982

	Date	Time	Scale
In:	5/8/2018	09:13:24	CENCSCALE1
Out:	5/8/2018	09:15:00	

Manifest: 1749080

Vehicle ID: 02DRWI226

Vehicle Permit: DESW-1675

	Lbs.	Tns
Gross:	77120.00	38.56
Tare:	29180.00	14.59
Net:	47940.00	23.97

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Della Rocca Waste Industries, Inc.

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.9700	TONS

Comment:

Driver: Alex

Facility: _____
Napier, Jim

CLEANEARTH

Manifest # 1749080

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.**	GROSS WEIGHT: ☒ Tons ☐ Yards	09:10 am 05-08-18 ~~77150~~ 77170
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	39180
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards	37.97

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 5-8-18

TRANSPORTER

Company: Della Rocca Phone Number: 201 494 9602

Address: Truck # and License Plate: 60638 NC

Driver: Alexander Cooper SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5/8/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5-8-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000871991

	Date	Time	Scale
In:	5/8/2018	09:17:11	CENCSCALE1
Out:	5/8/2018	09:19:32	

	Lbs.	Tns
Gross:	74480.00	37.24
Tare:	28800.00	14.40
Net:	45680.00	22.84

Manifest: 1749079

Vehicle ID: 02PT511

Vehicle Permit: DESW-1515

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Prince Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.8400	TONS

Comment:

Driver: Edna

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749079

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:14 am05-08-18 74480
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	74480
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	38800
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	35.84

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 5-8-18

TRANSPORTER

Company: Prince Phone Number: 9738369 12

Address: landing Truck # and License Plate: 511 AR 593F

Driver: EDNA SW Haulers Permit #: DESW 1515

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 08/05/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 08/05/18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000872016

	Date	Time	Scale
In:	5/8/2018	09:20:22	CENCSCALE1
Out:	5/8/2018	09:32:20	CENCSCALE1

Manifest: 1749083

Vehicle ID: 02LT21

Vehicle Permit: DESW-1614

	Lbs.	Tns
Gross:	74520.00	37.26
Tare:	27460.00	13.73
Net:	47060.00	23.53

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.5300	TONS

Comment:

Driver: Paul

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749083

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:17 am05-08-18 74520
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	74520
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	37460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	37.53

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: 5/8/18

TRANSPORTER

Company: Logitech Inc. Phone Number: #21

Address: Hillsdale Truck # and License Plate: AU223A

Driver: Paul (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4/8/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5/8/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5-8-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000872029

	Date	Time	Scale
In:	5/8/2018	09:28:31	CENCSCALE1
Out:	5/8/2018	09:40:55	CENCSCALE1

Manifest: 1749082

Vehicle ID: 02LT34

Vehicle Permit:

	Lbs.	Tns
Gross:	70540.00	35.27
Tare:	29360.00	14.68
Net:	41180.00	20.59

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.5900	TONS

Comment:

Driver: Carlos

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749082

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	70540
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	49360
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	20.59

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr

Signature: Art Countz Date and Time: _____

TRANSPORTER

Company: Shorley xpress Phone Number: _____

Address: _____ Truck # and License Plate: AV722A #34

Driver: Carlos SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Carlos Date and Time: 5-8-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Carlos Date and Time: 5-8-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-8-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000872033

	Date	Time	Scale
In:	5/8/2018	09:35:22	CENCSCALE1
Out:	5/8/2018	09:44:57	CENCSCALE1

Manifest: 1749081

Vehicle ID: 02DRV15

Vehicle Permit: DESW-1678

	Lbs.	Tns
Gross:	73300.00	36.65
Tare:	28500.00	14.25
Net:	44800.00	22.40

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: DRV Xpress, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.4000	TONS

Comment:

Driver: Marco

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749081

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:32 am05-08-18 73300
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	73300
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	73500
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	77.40

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con_mgr

Signature: Art Counts Date and Time: 5-8-18

TRANSPORTER

Company: DRV Xpress Phone Number:

Address: newark NJ Truck # and License Plate: AU976A #15

Driver: Marco SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5/8/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5/8/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-8-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000872327

	Date	Time	Scale
In:	5/8/2018	12:27:20	CENCSCALE1
Out:	5/8/2018	12:28:21	

Manifest: 1749085

Vehicle ID: 02DRWI226

Vehicle Permit: DESW-1675

	Lbs.	Tns
Gross:	76220.00	38.11
Tare:	29180.00	14.59
Net:	47040.00	23.52

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Della Rocca Waste Industries, Inc.

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.5200	TONS

Comment:

Driver: Alex

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749085

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:22 PM05-08-18 76220 76220
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	
1445 Parkway Avenue	TARE WEIGHT:	29180
Ewing Township, NJ 08628	☒ Tons ☐ Yards	
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	23.52
	☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Lountz for Racer Title: Con. Mgr.

Signature: Art Lountz Date and Time: 5/8/18

TRANSPORTER

Company: D'Ilia Rocca Phone Number: 2014948697

Address: _____ Truck # and License Plate: 60638 PC NY

Driver: Alexander Cosa SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5/8/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5 8 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000872330

	Date	Time	Scale
In:	5/8/2018	12:29:20	CENCSCALE1
Out:	5/8/2018	12:30:30	

Manifest: 1749084

Vehicle ID: 02PT511

Vehicle Permit: DESW-1515

	Lbs.	Tns
Gross:	74720.00	37.36
Tare:	28800.00	14.40
Net:	45920.00	22.96

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Prince Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.9600	TONS

Comment:

Driver: Edna

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749084

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:26 PM05-08-18 ~~74740~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	74720
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	38800
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	37.96

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil Pile B-2

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr.

Signature: Art Counts Date and Time: 5/8/18

TRANSPORTER

Company: Prime Phone Number: 9738369512

Address: landing Truck # and License Plate: 511 AP 593F

Driver: EDNA G (Type or Print Clearly) SW Haulers Permit #: 1515 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 05/08/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 05/08/18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000872337

	Date	Time	Scale
In:	5/8/2018	12:34:17	CENCSCALE1
Out:	5/8/2018	12:35:20	

Manifest: 1749086

Vehicle ID: 02LT21

Vehicle Permit: DESW-1614

	Lbs.	Tns
Gross:	78600.00	39.30
Tare:	27460.00	13.73
Net:	51140.00	25.57

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.5700	TONS

Comment:

Driver: Paul

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749086

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ Tons ☐ Yards — 12:30 PM 05-08-18 78600
	TARE WEIGHT: ☒ Tons ☐ Yards — 77460
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards — 75.57

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr.

Signature: Art Counts Date and Time: 5-8-18

TRANSPORTER

Company: Logitech Phone Number:

Address: Hillsborough Truck # and License Plate: PU223A #21

Driver: Dennis Lee (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dennis Lee Date and Time: 5-8-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dennis Lee Date and Time: 5-8-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-8-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000872358

	Date	Time	Scale
In:	5/8/2018	12:47:11	CENCSCALE1
Out:	5/8/2018	12:48:13	

Manifest: 1749087

Vehicle ID: 02LT34

Vehicle Permit: DESW-1614

	Lbs.	Tns
Gross:	80920.00	40.46
Tare:	29360.00	14.68
Net:	51560.00	25.78

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.7800	TONS

Comment:

Driver: Carlos

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749087

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:43 PM 05-08-18 30920
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	80920
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	79360
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	75.78

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr

Signature: Art Countz Date and Time: 5/8/18

TRANSPORTER

Company: Shirley xpress Phone Number:

Address: Truck # and License Plate: AV822A #34

Driver: Carlos SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Carlos Date and Time: 5-8-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Carlos Date and Time: 5-8-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-8-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000872364

	Date	Time	Scale
In:	5/8/2018	12:49:14	CENCSCALE1
Out:	5/8/2018	12:51:19	

Manifest: 1749088

Vehicle ID: 02DRV15

Vehicle Permit: DESW-1678

	Lbs.	Tns
Gross:	80620.00	40.31
Tare:	28500.00	14.25
Net:	52120.00	26.06

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: DRV Xpress, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	26.0600	TONS

Comment:

Driver: Marco

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749088

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:45 PM 05-08-18 80620
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	80670
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	78500
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	76.06

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr.

Signature: Art Countz Date and Time: _____

TRANSPORTER

Company: JDV Xpress Phone Number: _____

Address: Newark NJ Truck # and License Plate: AU976A #15

Driver: Wayne SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5/8/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5/8/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-8-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000872716

	Date	Time	Scale
In:	5/8/2018	15:37:24	CENCSCALE1
Out:	5/8/2018	15:38:25	

Manifest: 1749089

Vehicle ID: 02DRWI226

Vehicle Permit: DESW-1675

	Lbs.	Tns
Gross:	78480.00	39.24
Tare:	29180.00	14.59
Net:	49300.00	24.65

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Della Rocca Waste Industries, Inc.

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.6500	TONS

Comment:

Driver: Alex

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749089

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	78480
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	29180
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	24.65

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5-8-18

TRANSPORTER

Company: Della Rocca 226 Phone Number: 2014948698

Address: _____ Truck # and License Plate: 60639 PC NY

Driver: Alexander Cooper SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5/8/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5 8 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000872725

	Date	Time	Scale
In:	5/8/2018	15:39:43	CENCSCALE1
Out:	5/8/2018	15:40:48	

Manifest: 1749090

Vehicle ID: 02PT511

Vehicle Permit: DESW-1515

	Lbs.	Tns
Gross:	75920.00	37.96
Tare:	28800.00	14.40
Net:	47120.00	23.56

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Prince Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.5600	TONS

Comment:

Driver: Edna

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749090

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	03176 en05-08-18 75920 75920
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28800
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	23.56

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil F.K B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Agt Counts for Racer Title: Con Mgr.

Signature: Agt Counts Date and Time: 5.8.18

TRANSPORTER

Company: Prime Phone Number: 9738369512

Address: Landing Truck # and License Plate: 511 AR593F

Driver: CDVAJ SW Haulers Permit #: 1515

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 05/08/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 05/08/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 8 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000872737

	Date	Time	Scale
In:	5/8/2018	15:45:22	CENCSCALE1
Out:	5/8/2018	15:46:06	

Manifest: 1749091

Vehicle ID: 02LT21

Vehicle Permit: DESW-1614

	Lbs.	Tns
Gross:	83860.00	41.93
Tare:	27460.00	13.73
Net:	56400.00	28.20

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	28.2000	TONS

Comment:

Driver: Paul

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749091

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	83860
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	28.20

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5/8/18

TRANSPORTER #21

Company: Logistics Phone Number:

Address: Hiller Truck # and License Plate: AU223A

Driver: Ronald Lee (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5-/8/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5/8

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 8 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000872756

	Date	Time	Scale
In:	5/8/2018	15:58:15	CENCSCALE1
Out:	5/8/2018	15:59:02	

Manifest: 1749092

Vehicle ID: 02LT34

Vehicle Permit: DESW-1614

	Lbs.	Tns
Gross:	84640.00	42.32
Tare:	29360.00	14.68
Net:	55280.00	27.64

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	27.6400	TONS

Comment:

Driver: Carlos

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749092

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards — 13:54 ew05-08-18 84640 **84640**
	TARE WEIGHT: ☒ Tons ☐ Yards — **29360**
	NET WEIGHT: ☒ Tons ☐ Yards — **27.64**

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con/Mgr.

Signature: Art Counts Date and Time: 5/8/18

TRANSPORTER

Company: Shirley Express Phone Number:

Address: Truck # and License Plate: AU222A #34

Driver: Carlos SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Carlos Date and Time: 5-08-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Carlos Date and Time: 5-8-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 8 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000872759

	Date	Time	Scale
In:	5/8/2018	16:00:45	CENCSCALE1
Out:	5/8/2018	16:01:33	

Manifest: 1749093

Vehicle ID: 02DRV15

Vehicle Permit: DESW-1678

	Lbs.	Tns
Gross:	80880.00	40.44
Tare:	28500.00	14.25
Net:	52380.00	26.19

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: DRV Xpress, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	26.1900	TONS

Comment:

Driver: Marco

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749093

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	08880
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28500
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	26.19

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Cuntz for Racer Title: Con Mgr

Signature: Art Cuntz Date and Time: 5/8/18

TRANSPORTER

Company: JRV Xpress Phone Number:

Address: Newark NJ Truck # and License Plate: AH976A HF15

Driver: Wayne SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5/8/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5/8/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5 8 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873101

	Date	Time	Scale
In:	5/9/2018	09:17:37	CENCSCALE1
Out:	5/9/2018	09:18:55	

	Lbs.	Tns
Gross:	74920.00	37.46
Tare:	28180.00	14.09
Net:	46740.00	23.37

Manifest: 1749094

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.3700	TONS

Comment:

Driver: Catt

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749094

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	09:14 am05-09-18 74920 74920
	TARE WEIGHT: ☒ Tons ☐ Yards	78180
	NET WEIGHT: ☒ Tons ☐ Yards	73.37

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 5/9/18

TRANSPORTER

Company: COSTA Phone Number:

Address: Columbus NJ Truck # and License Plate: #6 AT3728

Driver: CHAD SW Haulers Permit #: 35807

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5-9-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5-9-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5-9-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873103

	Date	Time	Scale
In:	5/9/2018	09:19:33	CENCSCALE1
Out:	5/9/2018	09:21:03	

	Lbs.	Tns
Gross:	72500.00	36.25
Tare:	28340.00	14.17
Net:	44160.00	22.08

Manifest: 1749095

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.0800	TONS

Comment:

Driver: Eric

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749095

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	09:16 tn05-09-16 72500 72500
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	73340
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	72.08

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 5.9.18

TRANSPORTER

Company: COSTA Phone Number:

Address: Truck # and License Plate: 5 AS789X

Driver: E SW Haulers Permit #: 35807

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5 9 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5 9 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5-9-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873108

	Date	Time	Scale
In:	5/9/2018	09:22:22	CENCSCALE1
Out:	5/9/2018	09:23:48	

Manifest: 1749096

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

	Lbs.	Tns
Gross:	74780.00	37.39
Tare:	25140.00	12.57
Net:	49640.00	24.82

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.8200	TONS

Comment:

Driver: Dennis

Facility: _____
Napier, Jim

CLEANEARTH

Manifest # 1749096

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628**	GROSS WEIGHT: ☒ Tons ☐ Yards	09:13 am 05-09-18 74780 74780
	TARE WEIGHT: ☒ Tons ☐ Yards	35140
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT: ☒ Tons ☐ Yards	39.64

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5.9.18

TRANSPORTER

Company: EDI TRANSPORT / Sidebury Const Inc Phone Number: 215-805-6771

Address: Coppersburg PA 18036 Truck # and License Plate: TK5 AG69367

Driver: Dennis Brady (Type or Print Clearly) SW Haulers Permit #: SW 1708 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dennis Brady Date and Time: 5/9/18 7:45

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dennis Brady Date and Time: 5/9/18 7:45

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-9-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873128

	Date	Time	Scale
In:	5/9/2018	09:31:13	CENCSCALE1
Out:	5/9/2018	09:32:13	

	Lbs.	Tns
Gross:	72780.00	36.39
Tare:	27940.00	13.97
Net:	44840.00	22.42

Manifest: 1749097

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.4200	TONS

Comment:

Driver: Dave

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749097

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:27 am05-09-18 72780
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	77780
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	77940
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	77.42

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Conte for Racer Title: Con Mgr

Signature: Art Conte Date and Time: 5/9/18

TRANSPORTER

Company: Costa Haulers Phone Number:

Address: Columbia NJ. Truck # and License Plate: 31 AS8691

Driver: DAVID BAH. SW Haulers Permit #: 13763

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5/9/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5/9/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5-9-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873143

	Date	Time	Scale
In:	5/9/2018	09:38:06	CENCSCALE1
Out:	5/9/2018	09:39:20	

Manifest: 1749098

Vehicle ID: 02BEK902

Vehicle Permit: DESW-1459

	Lbs.	Tns
Gross:	77720.00	38.86
Tare:	27200.00	13.60
Net:	50520.00	25.26

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: B & E Karts LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.2600	TONS

Comment:

Driver: Andrew

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749098

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:34 sm05-09-18 77720
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	77720
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	77700
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	75.76

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: _____

TRANSPORTER

Company: B&E Icards Phone Number: 610 847 5455

Address: Ottsville Truck # and License Plate: B&E 902 PA 39086

Driver: Andrew Blessing SW Haulers Permit #: DE SW 1459

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5/9/18 7:30

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5/9/18 9:30

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-9-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873501

	Date	Time	Scale
In:	5/9/2018	12:09:35	CENCSCALE1
Out:	5/9/2018	12:10:50	

Manifest: 1749099

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	71680.00	35.84
Tare:	28180.00	14.09
Net:	43500.00	21.75

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.7500	TONS

Comment:

Driver: Catt

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749099

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	12:05 PM 05-09-18 71680
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28180
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	21.75

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil T.P. B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5-9-18

TRANSPORTER

Company: Costa Phone Number:

Address: Columbus NJ Truck # and License Plate: #6 AT97JE

Driver: ATT SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5-9-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5-9-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5 9 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873507

	Date	Time	Scale
In:	5/9/2018	12:11:58	CENCSCALE1
Out:	5/9/2018	12:13:46	

Manifest: 1749100

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	71160.00	35.58
Tare:	28340.00	14.17
Net:	42820.00	21.41

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.4100	TONS

Comment:

Driver: Eric

Facility: _____

Buckley, Robert

CLEAN EARTH

Manifest # 1749100

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:08 pm05-29-18 ~~71140~~ 71460
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	
1445 Parkway Avenue	TARE WEIGHT:	28340
Ewing Township, NJ 08628	☒ Tons ☐ Yards	
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	21.411
	☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con mgr

Signature: Art Counts Date and Time: 5/29/18

TRANSPORTER

Company: CostA Phone Number:

Address: Truck # and License Plate: 5 AS789X

Driver: E SW Haulers Permit #: 35807

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5 9 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5 9 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5 9 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873529

	Date	Time	Scale
In:	5/9/2018	12:20:22	M
Out:	5/9/2018	12:23:06	

Manifest: 1753200

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	69480.00	34.74
Tare:	27940.00	13.97
Net:	41540.00	20.77

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.7700	TONS

Comment:

Driver: Dave

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1753200

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:16 PM05-09-18 69480
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	69480
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27940
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	26.77

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Rte B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5-9-18

TRANSPORTER

Company: COSTA HAULING Phone Number:

Address: COLUMBUS NJ. Truck # and License Plate: 3 / AS864B

Driver: DAVID E. DAHL SW Haulers Permit #: 13363

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5-9-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5-9-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 9 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873602

	Date	Time	Scale
In:	5/9/2018	12:57:50	M
Out:	5/9/2018	12:59:03	

Manifest: 1753199

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

	Lbs.	Tns
Gross:	71920.00	35.96
Tare:	25140.00	12.57
Net:	46780.00	23.39

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.3900	TONS

Comment:

Driver: Dennnis

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1753199

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	71920
Former Delphi Trenton Facility/R.A.C.E.R. 1445 Parkway Avenue Ewing Township, NJ 08628	TARE WEIGHT: ☒ Tons ☐ Yards	25140
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT: ☒ Tons ☐ Yards	23.39

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Agt, Counts for Ducer Title: Con Mgr

Signature: Agt Counts Date and Time: 5/9/18

TRANSPORTER

Company: EDP Transport / Salebury Const Inc Phone Number: 215 805-6774

Address: Coppersburg, PA 18036 Truck # and License Plate: TK-5 AG69367

Driver: Dennis Brady (Type or Print Clearly) SW Haulers Permit #: SW 1708 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dennis Brady Date and Time: 5/9/18 11:00

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dennis Brady Date and Time: 5/9/18 11:00

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5 9 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873634

	Date	Time	Scale
In:	5/9/2018	13:14:57	CENCSCALE1
Out:	5/9/2018	13:16:47	

	Lbs.	Tns
Gross:	75140.00	37.57
Tare:	27200.00	13.60
Net:	47940.00	23.97

Manifest: 1753201

Vehicle ID: 02BEK902

Vehicle Permit: DESW-1459

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: B & E Karts LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.9700	TONS

Comment:

Driver: Andrew

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1753201

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	11:11 PM 05-09-18 75140 ~~75190~~
Former Delphi Trenton Facility/R.A.C.E.R. 1445 Parkway Avenue Ewing Township, NJ 08628	TARE WEIGHT: ☒ Tons ☐ Yards	27200
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT: ☒ Tons ☐ Yards	23.97

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Rucor Title: Con. Mgr

Signature: Art Counts Date and Time: 5.9.18

TRANSPORTER

Company: BIG KARTS Phone Number: 6108475455

Address: OTTSVILLE PA Truck # and License Plate: BE 902 AG35CFG

Driver: Andrew Blessing SW Haulers Permit #: DE SW 1459
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5/5/18 11:07

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5/9/18 1:15

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5 9 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873826

	Date	Time	Scale
In:	5/9/2018	15:11:43	CENCSCALE1
Out:	5/9/2018	15:13:44	

Manifest: 1753202

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	72460.00	36.23
Tare:	28180.00	14.09
Net:	44280.00	22.14

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.1400	TONS

Comment:

Driver: Catt

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1753202

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	07:07 PM 05-09-18 72460 72460
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28180
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	22.14

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile S-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5.9.18

TRANSPORTER

Company: COSTA Phone Number:

Address: Columbus NJ Truck # and License Plate: #6 AT 7726

Driver: Curtis (Type or Print Clearly) SW Haulers Permit #: 35307 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5-9-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5-9-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 9 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873836

	Date	Time	Scale
In:	5/9/2018	15:18:00	CENCSCALE1
Out:	5/9/2018	15:19:06	

Manifest: 1753203

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	72760.00	36.38
Tare:	28340.00	14.17
Net:	44420.00	22.21

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.2100	TONS

Comment:

Driver: Eric

Facility: _____

Buckley, Robert

CLEAN

Manifest # 1753203

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:
Former Delphi Trenton Facility/R.A.C.E.R.
1445 Parkway Avenue
Ewing Township, NJ 08628
GENERATOR'S PHONE: 973-263-3900

GROSS WEIGHT: ☒ Tons ☐ Yards — 03:13 PM 05-09-18 72760 ~~72760~~

TARE WEIGHT: ☒ Tons ☐ Yards — 28340

NET WEIGHT: ☒ Tons ☐ Yards — 22.21

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil Pile B.3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Ark County for Rver Title: Con. Mgr.
Signature: Ark County Date and Time: 5/9/18

TRANSPORTER

Company: CostA Phone Number:
Address: Truck # and License Plate: 5 AS789X
Driver: E (Type or Print Clearly) SW Haulers Permit #: 35807 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5 9 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5 9 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5 9 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873857

	Date	Time	Scale
In:	5/9/2018	15:37:09	CENCSCALE1
Out:	5/9/2018	15:38:40	

Manifest: 1753204

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	70100.00	35.05
Tare:	27940.00	13.97
Net:	42160.00	21.08

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.0800	TONS

Comment:

Driver: Dave

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1753204

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	70100
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27940
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	21.08

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5/9/18

TRANSPORTER

Company: Costa Haulers Phone Number:

Address: Columbus Truck # and License Plate: 3/AS8645

Driver: DAVID BAM SW Haulers Permit #: 13363

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5/9/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5/9/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 9 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873870

	Date	Time	Scale
In:	5/9/2018	16:04:24	CENCSCALE1
Out:	5/9/2018	16:05:29	

Manifest: 1753205

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

	Lbs.	Tns
Gross:	76020.00	38.01
Tare:	25140.00	12.57
Net:	50880.00	25.44

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.4400	TONS

Comment:

Driver: Dennis

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1753205

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	14:30 PM05-09-18 76020 76020
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25140
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	25.44

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pit-B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 5/9/18

TRANSPORTER

Company: EDP TRANSPORT / Soleburg Const Inc Phone Number: 215-805-6774

Address: Coppersburg PA 18036 Truck # and License Plate: TK-5 AG 693C7

Driver: DENNIS BRADY (Type or Print Clearly) SW Haulers Permit #: 1708 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dennis Brady Date and Time: 5/9/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dennis Brady Date and Time: 5/9/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5/9/18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000873876

	Date	Time	Scale
In:	5/9/2018	16:13:24	CENCSCALE1
Out:	5/9/2018	16:14:30	

	Lbs.	Tns
Gross:	77940.00	38.97
Tare:	27200.00	13.60
Net:	50740.00	25.37

Manifest: 1753206

Vehicle ID: 02BEK902

Vehicle Permit: DESW-1459

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: B & E Karts LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.3700	TONS

Comment:

Driver: Andrew

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1753206

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	77940
Former Delphi Trenton Facility/R.A.C.E.R.		
1445 Parkway Avenue	TARE WEIGHT: ☒ Tons ☐ Yards	27200
Ewing Township, NJ 08628		
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT: ☒ Tons ☐ Yards	25.37

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr.

Signature: Art Counts Date and Time: 5.9.18

TRANSPORTER

Company: B&E KARTS Phone Number: 610 847 3008

Address: OTTSVILLE PA Truck # and License Plate: B&E 902 AR35665

Driver: ANDREW KLESSING SW Haulers Permit #: DE SW 1459

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5/9/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5/9/18 4:10

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 9 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000874179

	Date	Time	Scale
In:	5/10/2018	08:46:16	CENCSCALE1
Out:	5/10/2018	08:48:12	

Manifest: 1753207

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	71480.00	35.74
Tare:	28180.00	14.09
Net:	43300.00	21.65

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.6500	TONS

Comment:

Driver: Catt

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1753207

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	28142 gm05-10-18 71480 71480
Former Delphi Trenton Facility/R.A.C.E.R. 1445 Parkway Avenue Ewing Township, NJ 08628	TARE WEIGHT: ☒ Tons ☐ Yards	28180
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT: ☒ Tons ☐ Yards	21.65

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile-B3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr.

Signature: Art Counts Date and Time: 5-10-18

TRANSPORTER

Company: COSTA Phone Number:

Address: Columbus NJ Truck # and License Plate: #4 AT 772E

Driver: CATT D (Type or Print Clearly) SW Haulers Permit #: 35507 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5-10-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5-10-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5 10 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000874185

	Date	Time	Scale
In:	5/10/2018	08:48:58	CENCSCALE1
Out:	5/10/2018	08:50:59	

Manifest: 1753208

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	71400.00	35.70
Tare:	28340.00	14.17
Net:	43060.00	21.53

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.5300	TONS

Comment:

Driver: Eric

Facility: _____
Napier, Jim

CLEAN

Manifest # 1753208

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09146 ☒05-10-18 71400
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	71400
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	39340
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	31.53

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5.10.18

TRANSPORTER

Company: CoSTA Phone Number:

Address: Truck # and License Plate: 5 AS789X

Driver: E (Type or Print Clearly) SW Haulers Permit #: 35507 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5 10 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5 10 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5-10-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000874224

	Date	Time	Scale
In:	5/10/2018	09:02:13	CENCSCALE1
Out:	5/10/2018	09:04:15	

Manifest: 1753210

Vehicle ID: 02CH07

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	74200.00	37.10
Tare:	26060.00	13.03
Net:	48140.00	24.07

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.0700	TONS

Comment:

Driver: Mike

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1753210

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	08:59 5-10-18 ~~74.80~~ 74.700
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	70.60
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	74.07

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr

Signature: Art Countz Date and Time: 5-10-18

TRANSPORTER

Company: Costa Haulers Phone Number: 856-341-4412

Address: 11 Fairmont Drive, Columbus, NJ Truck # and License Plate: #7 [illegible]

Driver: Michael Carter SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5-10-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5-10-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-10-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000874226

	Date	Time	Scale
In:	5/10/2018	09:04:27	CENCSCALE1
Out:	5/10/2018	09:05:57	

Manifest: 1753209

Vehicle ID: 02CH04

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	74080.00	37.04
Tare:	28460.00	14.23
Net:	45620.00	22.81

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.8100	TONS

Comment:

Driver: Calvin

Facility: _____
Napier, Jim

CLEAN

Manifest # 1753209

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	39121 5-10-18 ~~74150~~ 74050
Former Delphi Trenton Facility/R.A.C.E.R. 1445 Parkway Avenue Ewing Township, NJ 08628	TARE WEIGHT: ☒ Tons ☐ Yards	73460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT: ☒ Tons ☐ Yards	37.81

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 5-10-18

TRANSPORTER

Company: Costa Phone Number:

Address: Truck # and License Plate: 4 AB 3145

Driver: Calvin SW Haulers Permit #: 02207

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Cal Date and Time: 5/10/18 7:48

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Cal Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5-10-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000874272

	Date	Time	Scale
In:	5/10/2018	09:24:57	CENCSCALE1
Out:	5/10/2018	09:26:02	

Manifest: 1753211

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	65980.00	32.99
Tare:	27940.00	13.97
Net:	38040.00	19.02

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	19.0200	TONS

Comment:

Driver: Dave

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1753211

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	09:20 am 05-10-18 45007
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27940
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	19.02

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5-10-18

TRANSPORTER

Company: Costa Hauling Phone Number:

Address: Columbus NJ Truck # and License Plate: N3 AS864L

Driver: David Min (Type or Print Clearly) SW Haulers Permit #: 1326 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5/10/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5/10/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5 10 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000874707

	Date	Time	Scale
In:	5/10/2018	12:03:07	CENCSCALE1
Out:	5/10/2018	12:04:24	

	Lbs.	Tns
Gross:	69080.00	34.54
Tare:	28180.00	14.09
Net:	40900.00	20.45

Manifest: 1753212

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.4500	TONS

Comment:

Driver: Catt

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1753212

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	11458 am05-10-18 69080 69080
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28180
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	20.45

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5-10-18

TRANSPORTER

Company: COSTA Phone Number:

Address: Columbus NJ Truck # and License Plate: #6 AM1792

Driver: COLED SW Haulers Permit #: 35807

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5-10-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5-10-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5 10 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000874710

	Date	Time	Scale
In:	5/10/2018	12:05:31	CENCSCALE1
Out:	5/10/2018	12:07:52	

Manifest: 1753213

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	71000.00	35.50
Tare:	28340.00	14.17
Net:	42660.00	21.33

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.3300	TONS

Comment:

Driver: Eric

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1753213

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	12:01 #05-10-18 71000 71000
Former Delphi Trenton Facility/R.A.C.E.R. 1445 Parkway Avenue Ewing Township, NJ 08628	TARE WEIGHT: ☒ Tons ☐ Yards	28340
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT: ☒ Tons ☐ Yards	21.33

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil File B-3

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 5.10.18

TRANSPORTER

Company: CostA Phone Number:

Address: Truck # and License Plate: 5 A5789X

Driver: E (Type or Print Clearly) SW Haulers Permit #: 35807 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5 10 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5 10 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5. 10 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000874665

	Date	Time	Scale
In:	5/10/2018	11:39:02	CENCSCALE1
Out:	5/10/2018	11:42:10	

Manifest: 1753214

Vehicle ID: 02CH07

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	71880.00	35.94
Tare:	26060.00	13.03
Net:	45820.00	22.91

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.9100	TONS

Comment:

Driver: Mike

Facility: _____
Napier, Jim

CLEAN

Manifest # 1753214

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	71850
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	74060
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	22.91

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5.10.18

TRANSPORTER

Company: Costa Haulers Phone Number: 856 341-4412

Address: 11 Fairmont Drive, Columbus NJ Truck # and License Plate: #7 AT22A

Driver: Michael Carter SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5-10-2018

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5-10-2018

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-10-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000874683

	Date	Time	Scale
In:	5/10/2018	11:51:05	CENCSCALE1
Out:	5/10/2018	11:52:25	

Manifest: 1753215

Vehicle ID: 02CH04

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	74500.00	37.25
Tare:	28460.00	14.23
Net:	46040.00	23.02

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.0200	TONS

Comment:

Driver: Calvin

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1753215

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	11147 ~~74480~~ 74500
Former Delphi Trenton Facility/R.A.C.E.R. 1445 Parkway Avenue Ewing Township, NJ 08628	TARE WEIGHT: ☒ Tons ☐ Yards	28460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT: ☒ Tons ☐ Yards	23.02

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 5.10.18

TRANSPORTER

Company: Coste Phone Number:

Address: Truck # and License Plate: 4 AS 3145

Driver: Calvin SW Haulers Permit #: 02207

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5/10/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 10 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000874768

	Date	Time	Scale
In:	5/10/2018	12:27:22	CENCSCALE1
Out:	5/10/2018	12:28:26	

Manifest: 1753216

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	68660.00	34.33
Tare:	27940.00	13.97
Net:	40720.00	20.36

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.3600	TONS

Comment:

Driver: Dave

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1753216

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.F.R.	☒ Tons ☐ Yards	68660
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27940
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	20.36

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B.4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 5.10.18

TRANSPORTER

Company: CUSTA HAULERS Phone Number:

Address: COLUMBUS N.J. Truck # and License Plate: #3 / AS 8640

Driver: DAVID BAKER (Type or Print Clearly) SW Haulers Permit #: 13367 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5-10-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5-10-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 10 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875121

	Date	Time	Scale
In:	5/10/2018	14:17:21	CENCSCALE1
Out:	5/10/2018	14:19:56	

Manifest: 1753217

Vehicle ID: 02CH07

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	73420.00	36.71
Tare:	26060.00	13.03
Net:	47360.00	23.68

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.6800	TONS

Comment:

Driver: Mike

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1753217

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Former Delphi Trenton Facility/R.A.C.E.R. 1445 Parkway Avenue Ewing Township, NJ 08628	GROSS WEIGHT: ☒ Tons ☐ Yards	73420 02:13 PM05-10-18 73420
	TARE WEIGHT: ☒ Tons ☐ Yards	26060
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT: ☒ Tons ☐ Yards	23.68

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Cuntz for Racer Title: Con Mgr

Signature: Art Cuntz Date and Time: 5/10/18

TRANSPORTER

Company: Costa Haulers Phone Number: 856-341-4412

Address: 11 Fairmont Drive, Columbus, NJ Truck # and License Plate: #7 A722AN

Driver: Michael Carter (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5-10-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5-16-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 10 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875144

	Date	Time	Scale
In:	5/10/2018	14:25:54	CENCSCALE1
Out:	5/10/2018	14:26:47	

Manifest: 1753218

Vehicle ID: 02CH04

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	74880.00	37.44
Tare:	28460.00	14.23
Net:	46420.00	23.21

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.2100	TONS

Comment:

Driver: Calvin

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1753218

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	02:21 PM05-10-18 ~~74980~~ 74580
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	26460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	2321

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Agt Counts for Racer Title: Con. Mgr

Signature: Agt Counts Date and Time: 5.10.18

TRANSPORTER

Company: Costa Phone Number:

Address: Truck # and License Plate: 4 AS 3145

Driver: Cal SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5/10/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 10 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875222

	Date	Time	Scale
In:	5/10/2018	15:04:00	CENCSCALE1
Out:	5/10/2018	15:05:10	

Manifest: 1753220

Vehicle ID: 02CH06

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	72200.00	36.10
Tare:	28180.00	14.09
Net:	44020.00	22.01

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.0100	TONS

Comment:

Driver: Catt

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1753220

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	72200
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	50180
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	22.01

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil File B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5.10.18

TRANSPORTER

Company: COSTA Phone Number:

Address: Columbus NJ Truck # and License Plate: #6 AT772E

Driver: MATT D (Type or Print Clearly) SW Haulers Permit #: 35807 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5-10-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5-10-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5 10 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875226

	Date	Time	Scale
In:	5/10/2018	15:06:57	CENCSCALE1
Out:	5/10/2018	15:08:07	

Manifest: 1753219

Vehicle ID: 02CH05

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	72460.00	36.23
Tare:	28340.00	14.17
Net:	44120.00	22.06

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.0600	TONS

Comment:

Driver: Eric

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1753219

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 1830200035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	72460
Former Delphi Trenton Facility/R.A.C.E.R.		
1445 Parkway Avenue	TARE WEIGHT: ☒ Tons ☐ Yards	28340
Ewing Township, NJ 08628		
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT: ☒ Tons ☐ Yards	22.06

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 5.10.18

TRANSPORTER

Company: COSTA Phone Number:

Address: Truck # and License Plate: 5 AS789X

Driver: E SW Haulers Permit #: 35807

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5 10 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5 10 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 10 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875230

	Date	Time	Scale
In:	5/10/2018	15:11:04	CENCSCALE1
Out:	5/10/2018	15:12:45	

Manifest: 1753221

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	71540.00	35.77
Tare:	27940.00	13.97
Net:	43600.00	21.80

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.8000	TONS

Comment:

Driver: Dave

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1753221

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	71540 02:03 PM 05-10-18 71540
Former Delphi Trenton Facility/R.A.C.E.R. 1445 Parkway Avenue Ewing Township, NJ 08628	TARE WEIGHT: ☒ Tons ☐ Yards	27940
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT: ☒ Tons ☐ Yards	21.80

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 5-10-18

TRANSPORTER

Company: COSTA Haulers Phone Number:

Address: Columbus N.J Truck # and License Plate: 43 / AJ5864J

Driver: DAVID (Type or Print Clearly) SW Haulers Permit #: 13363 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5-10-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5-10-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5/10/18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875556

	Date	Time	Scale
In:	5/11/2018	09:01:57	CENCSCALE1
Out:	5/11/2018	09:03:41	

Manifest: 1692354

Vehicle ID: 02DRV15

Vehicle Permit: DESW-1678

	Lbs.	Tns
Gross:	76240.00	38.12
Tare:	28500.00	14.25
Net:	47740.00	23.87

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: DRV Xpress, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.8700	TONS

Comment:

Driver: Marco

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1692354

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	08:58 am 05-11-18 76240 / 76240
Former Delphi Trenton Facility/R.A.C.E.R		
1445 Parkway Avenue	TARE WEIGHT: ☐Tons ☐Yards	38500
Ewing Township, NJ		
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	37.87

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Non-Haz contaminated soil Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5-11-18

TRANSPORTER

Company: Shirley Express LLC DRV Xpress Phone Number: (908) 258-0597

Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: AU976A #15

Driver: Marco (Type or Print Clearly) SW Haulers Permit #: NJ-983 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5/11/18

DESTINATION

~~I hereby certify~~ that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875583

	Date	Time	Scale
In:	5/11/2018	09:17:07	CENCSCALE1
Out:	5/11/2018	09:18:54	

Manifest: 1692355

Vehicle ID: 02LT21

Vehicle Permit: DESW-1614

	Lbs.	Tns
Gross:	76100.00	38.05
Tare:	27460.00	13.73
Net:	48640.00	24.32

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.3200	TONS

Comment:

Driver: Paul

Facility: _____
Napier, Jim

CLEAN

Manifest # 1632355

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	76100
Former Delphi Trenton Facility/R.A.C.E.R		
1445 Parkway Avenue	TARE WEIGHT: ☐Tons ☐Yards	71460
Ewing Township, NJ		
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	74.37

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Haz Contaminated Soils Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Cuntz for Racer Title: Con Mgr

Signature: Art Cuntz Date and Time: 5/11/18

TRANSPORTER

Company: Shirley Express LLC Phone Number: (908) 258-0597 #21

Address: 702 Ramsey Ave. Hillside, NJ 07205 Truck # and License Plate: AL2230

Driver: _____ SW Haulers Permit #: NJ-983

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5/11/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875600

	Date	Time	Scale
In:	5/11/2018	09:29:45	CENCSCALE1
Out:	5/11/2018	09:31:21	

Manifest: 1692357

Vehicle ID: 02LT34

Vehicle Permit: DESW-1614

	Lbs.	Tns
Gross:	76500.00	38.25
Tare:	29360.00	14.68
Net:	47140.00	23.57

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.5700	TONS

Comment:

Driver: Carlos

Facility: _____
Napier, Jim

CLEAN

Manifest # 1692357

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	09:25 on 05-11-18 ~~76480~~ 76500
Former Delphi Trenton Facility/R.A.C.E.R **1445 Parkway Avenue** **Ewing Township, NJ**	TARE WEIGHT: ☐Tons ☐Yards	79360
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	73.51

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Haz Contaminated Soils Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5-11-18

TRANSPORTER

Company: Shirley Express LLC Phone Number: (908) 258-0597

Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: AV722A #34

Driver: Carlos (Type or Print Clearly) SW Haulers Permit #: NJ-983 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Carlos Date and Time: 5-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Carlos Date and Time: 5-11-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875610

	Date	Time	Scale
In:	5/11/2018	09:25:41	CENCSCALE1
Out:	5/11/2018	09:36:27	CENCSCALE1

Manifest: 1692356

Vehicle ID: 02LT01

Vehicle Permit: DESW-1614

	Lbs.	Tns
Gross:	74520.00	37.26
Tare:	28860.00	14.43
Net:	45660.00	22.83

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.8300	TONS

Comment:

Driver: Angel

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1692356

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	09:22 am05-11-18 74520 74520
Former Delphi Trenton Facility/R.A.C.E.R		
1445 Parkway Avenue	TARE WEIGHT: ☐Tons ☐Yards	09:31 am05-11-18 28860 28860
Ewing Township, NJ		
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	92-83

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Haz Contaminated Soils Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5/11/18

TRANSPORTER

Company: **Shirley Express LLC** Phone Number: **(908) 258-0597**

Address: **702 Ramsey Ave, Hillside, NJ 07205** Truck # and License Plate: AW421C - #01

Driver: Jorge Padilla (Type or Print Clearly) SW Haulers Permit #: **NJ-983** (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: JP Date and Time: 5-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: JP Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5 11 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875665

	Date	Time	Scale
In:	5/11/2018	10:03:37	CENCSCALE1
Out:	5/11/2018	10:05:19	

Manifest: 1692358

Vehicle ID: 02RLS68

Vehicle Permit: DESW-1499

	Lbs.	Tns
Gross:	76700.00	38.35
Tare:	26640.00	13.32
Net:	50060.00	25.03

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: RLS Transportation

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.0300	TONS

Comment:

Driver: Abraham

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1692358

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	09:59 am 05-11-18 Tared 76700
Former Delphi Trenton Facility/R.A.C.E.R		
1445 Parkway Avenue	TARE WEIGHT: ☐Tons ☐Yards	26640
Ewing Township, NJ		
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	25.03

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
~~Non-Hazardous~~ Non Haz Contaminated Soils Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Cap. Mgr

Signature: Art Countz Date and Time: 5/11/18

TRANSPORTER

Company: Shirley Express LLC Phone Number: (908) 258-0497

Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: #68 AT955Z

Driver: ABRAHAM (Type or Print Clearly) SW Haulers Permit #: NJ-983 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5/11/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5 11 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875895

	Date	Time	Scale
In:	5/11/2018	12:16:14	CENCSCALE1
Out:	5/11/2018	12:17:24	

Manifest: 1692359

Vehicle ID: 02DRV15

Vehicle Permit: DESW-1678

	Lbs.	Tns
Gross:	75600.00	37.80
Tare:	28500.00	14.25
Net:	47100.00	23.55

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: DRV Xpress, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.5500	TONS

Comment:

Driver: Marco

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1692359

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 1830020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R 1445 Parkway Avenue Ewing Township, NJ**	GROSS WEIGHT: ☐Tons ☐Yards	75600 12:12 PM 05-11-18
	TARE WEIGHT: ☐Tons ☐Yards	28500
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	23.55

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non Haz Contaminated Soil Pike B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Lemke for Racer Title: Con Mgr

Signature: Art Lemke Date and Time: 5.11.18

TRANSPORTER

Company: Shirley Express LLC SPV Xpress Phone Number: (908) 258-0597

Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: AU976 A-4115

Driver: Marcus (Type or Print Clearly) SW Haulers Permit #: NJ-983 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5/11/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5 11 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875922

	Date	Time	Scale
In:	5/11/2018	12:28:10	CENCSCALE1
Out:	5/11/2018	12:29:40	

Manifest: 1692360

Vehicle ID: 02LT21

Vehicle Permit: DESW-1614

	Lbs.	Tns
Gross:	79020.00	39.51
Tare:	27460.00	13.73
Net:	51560.00	25.78

Customer HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.7800	TONS

Comment:

Driver: Paul

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1692360

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	79020
Former Delphi Trenton Facility/R.A.C.E.R		
1445 Parkway Avenue	TARE WEIGHT: ☐Tons ☐Yards	27460
Ewing Township, NJ		
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	2578

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Haz Contaminated Soils Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 5.11.16

TRANSPORTER

Company: Shirley Express LLC Phone Number: (908) 258-0597 #2

Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: AU223A

Driver: Paul SW Haulers Permit #: NJ-983

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5-11-16

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5-11-16

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5 11 16

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875929

	Date	Time	Scale
In:	5/11/2018	12:33:45	CENCSCALE1
Out:	5/11/2018	12:35:07	

Manifest: 1692363

Vehicle ID: 02RLS68

Vehicle Permit: DESW-1499

	Lbs.	Tns
Gross:	74640.00	37.32
Tare:	26640.00	13.32
Net:	48000.00	24.00

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: RLS Transportation

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.0000	TONS

Comment:

Driver: Abraham

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1692363

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	74640
~~Former Delphi Trenton Facility/R.A.C.E.R~~ ~~1445 Parkway Avenue~~ **Ewing Township, NJ**	TARE WEIGHT: ☐Tons ☐Yards	36640
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	74.00

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Haz Contaminated soil Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Cuenta for Racer Title: Con Mgr.

Signature: [signature] Date and Time: 5/11/18

TRANSPORTER

Company: Shirley Express LLC Phone Number: (908) 258-0597

Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: #68 AT9552

Driver: Abraham (Type or Print Clearly) SW Haulers Permit #: NJ-983 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5/11/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875950

	Date	Time	Scale
In:	5/11/2018	12:49:00	CENCSCALE1
Out:	5/11/2018	12:50:14	

Manifest: 1692361

Vehicle ID: 02LT34

Vehicle Permit: DESW-1614

	Lbs.	Tns
Gross:	78260.00	39.13
Tare:	29360.00	14.68
Net:	48900.00	24.45

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.4500	TONS

Comment:

Driver: Carlos

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1692361

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	78760
~~Former Delphi Trenton Facility/R.A.C.E.R~~ ~~1445 Parkway Avenue~~ ~~Ewing Township, NJ~~	TARE WEIGHT: ☐Tons ☐Yards	29360
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	29 45

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Haz Contaminated Soils Pile B4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 5/11/18

TRANSPORTER

Company: Shirley Express LLC Phone Number: (908) 258-0597

Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: AV722A #34 NJ-983

Driver: Carlos (Type or Print Clearly) SW Haulers Permit #: _____ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Carlos Date and Time: 5-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Carlos Date and Time: 5-11-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000875958

	Date	Time	Scale
In:	5/11/2018	12:53:36	CENCSCALE1
Out:	5/11/2018	12:55:08	

Manifest: 1692362

Vehicle ID: 02LT01

Vehicle Permit: DESW-1614

	Lbs.	Tns
Gross:	75880.00	37.94
Tare:	28860.00	14.43
Net:	47020.00	23.51

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.5100	TONS

Comment:

Driver: Angel

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1692362

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	12:50 PM 05-11-18 ~~75000~~ 75880
Former Delphi Trenton Facility/R.A.C.E.R		
1445 Parkway Avenue	TARE WEIGHT: ☐Tons ☐Yards	38860
Ewing Township, NJ		
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	37.51

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Haz Contaminated Soils Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Cuentz for Racer Title: Con Mgr

Signature: Art Cuentz Date and Time: 5/11/18

TRANSPORTER

Company: **Shirley Express LLC** Phone Number: **(908) 258-0597**

Address: **702 Ramsey Ave, Hillside, NJ 07205** Truck # and License Plate: AU421C #01

Driver: Angel Padilla (Type or Print Clearly) SW Haulers Permit #: **NJ-983** (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000876126

	Date	Time	Scale
In:	5/11/2018	15:24:39	CENCSCALE1
Out:	5/11/2018	15:28:17	

Manifest: 1692364

Vehicle ID: 02DRV15

Vehicle Permit: DESW-1678

	Lbs.	Tns
Gross:	75220.00	37.61
Tare:	28500.00	14.25
Net:	46720.00	23.36

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: DRV Xpress, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.3600	TONS

Comment:

Driver: Marco

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1692364

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R** **1445 Parkway Avenue** **Ewing Township, NJ**	GROSS WEIGHT: ☐Tons ☐Yards	75220
	TARE WEIGHT: ☐Tons ☐Yards	28500
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	23.36

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Non Haz Contaminated Soils Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Agt. Counts for Racer Title: Cons Mgr

Signature: Agt Counts Date and Time: 5/11/18

TRANSPORTER

Company: Shirley Express LLC ARV Xpress Phone Number: (908) 258-0597

Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: AU 976 A #15

Driver: Mario (Type or Print Clearly) SW Haulers Permit #: NJ-983 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5/11/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 5/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5 11 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000876129

	Date	Time	Scale
In:	5/11/2018	15:28:26	CENCSCALE1
Out:	5/11/2018	15:34:36	

Manifest: 1692365

Vehicle ID: 02RLS68

Vehicle Permit: DESW-1499

	Lbs.	Tns
Gross:	74680.00	37.34
Tare:	26640.00	13.32
Net:	48040.00	24.02

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: RLS Transportation

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.0200	TONS

Comment:

Driver: Abraham

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1692365

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **~~Former Delphi Trenton Facility/R.A.C.E.R~~ 1445 Parkway Avenue Ewing Township, NJ**	GROSS WEIGHT: ☐Tons ☐Yards	03:24 PM05-11-18 74680 74690
	TARE WEIGHT: ☐Tons ☐Yards	26640
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	24.02

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Non Haz Contaminated soils Pile B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5/11/18

TRANSPORTER

Company: Shirley Express LLC Phone Number: (908) 258-0597

Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: #68 A19352

Driver: ABRAHAM (Type or Print Clearly) SW Haulers Permit #: NJ-983 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 5/11/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 5/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5 11 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000876134

	Date	Time	Scale
In:	5/11/2018	15:39:32	CENCSCALE1
Out:	5/11/2018	15:40:35	

Manifest: 1692366

Vehicle ID: 02LT21

Vehicle Permit: DESW-1614

	Lbs.	Tns
Gross:	82800.00	41.40
Tare:	27460.00	13.73
Net:	55340.00	27.67

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	27.6700	TONS

Comment:

Driver: Paul

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1692366

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	82800
Former Delphi Trenton Facility/R.A.C.E.R		12:05 PM05-11-18 ~~82796~~
1445 Parkway Avenue	TARE WEIGHT: ☐Tons ☐Yards	27466
Ewing Township, NJ		
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	27.67

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non Haz Contaminated soil Pile-B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5/11/18

TRANSPORTER

Company: **Shirley Express LLC** Phone Number: **(908) 258-0597** AR1

Address: **702 Ramsey Ave, Hillside, NJ 07205** Truck # and License Plate: AV223A

Driver: Pat (Type or Print Clearly) SW Haulers Permit #: **NJ-983** (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 5/11/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 5/11/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 5 11 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000876146

	Date	Time	Scale
In:	5/11/2018	15:58:50	CENCSCALE1
Out:	5/11/2018	16:00:26	

Manifest: 1692367

Vehicle ID: 02LT34

Vehicle Permit: DESW-1614

	Lbs.	Tns
Gross:	82940.00	41.47
Tare:	29360.00	14.68
Net:	53580.00	26.79

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	26.7900	TONS

Comment:

Driver: Carlos

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1692367

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	03:55 PM05-11-18 82940 82940
Former Delphi Trenton Facility/R.A.C.E.R **1445 Parkway Avenue** **Ewing Township, NJ**	TARE WEIGHT: ☐Tons ☐Yards	79360
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	3.79

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non Haz. Contaminated Soils Pile B4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Cantz for Racer Title: Cons Mgr

Signature: Art Cantz Date and Time: 5/11/18

TRANSPORTER

Company: **Shirley Express LLC** Phone Number: **(908) 258-0597**

Address: **702 Ramsey Ave, Hillside, NJ 07205** Truck # and License Plate: AV222A #34

Driver: Carlos (Type or Print Clearly) SW Haulers Permit #: **NJ-983** (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Carlos Date and Time: 5-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Carlos Date and Time: 5-11-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 5-11-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000876148

	Date	Time	Scale
In:	5/11/2018	16:02:47	CENCSCALE1
Out:	5/11/2018	16:04:14	

Manifest: 1692368

Vehicle ID: 02LT01

Vehicle Permit: DESW-1614

	Lbs.	Tns
Gross:	47340.00	23.67
Tare:	28860.00	14.43
Net:	18480.00	9.24

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Logitech Transport, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	9.2400	TONS

Comment:

Driver: Angel

Facility: _____
Buckley, Robert

CLEANEARTH

Manifest # 1692368

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	12:59 pm05-11-18 47340 47340
Former Delphi Trenton Facility/R.A.C.E.R		
1445 Parkway Avenue	TARE WEIGHT: ☐Tons ☐Yards	28860
Ewing Township, NJ		
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	9.24

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non HAz Contaminated Soils File B-4

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 5/11/18

TRANSPORTER

Company: **Shirley Express LLC** Phone Number: **(908) 258-0597**

Address: **702 Ramsey Ave, Hillside, NJ 07205** Truck # and License Plate: AU 421C - #01

Driver: Angel Padilla (Type or Print Clearly) SW Haulers Permit #: **NJ-983** (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5-11-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 5 11 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853510

	Date	Time	Scale
In:	4/12/2018	09:32:18	CENCSCALE1
Out:	4/12/2018	09:34:18	

Manifest: 1749015

Vehicle ID: 02AG28

Vehicle Permit: DESW-1362

	Lbs.	Tns
Gross:	71620.00	35.81
Tare:	26420.00	13.21
Net:	45200.00	22.60

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Agliano Brothers Trucking

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.6000	TONS

Comment:

Driver: Brandon

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749015

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:28 am04-12-18 71620
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	71620
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	26420
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	22.60

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4-12-18 0800

TRANSPORTER

Company: EDP / Agliano Phone Number: (215) 805-6774

Address: Coopersburg, Pa Truck # and License Plate: #28 AE 39557 (Pa)

Driver: Brandon Thomas SW Haulers Permit #: WHO 324

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4/12/2018 8:00a

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853524

	Date	Time	Scale
In:	4/12/2018	09:36:55	CENCSCALE1
Out:	4/12/2018	09:38:41	

Manifest: 1749014

Vehicle ID: 02AG08

Vehicle Permit: DESW-1362

	Lbs.	Tns
Gross:	75040.00	37.52
Tare:	26420.00	13.21
Net:	48620.00	24.31

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Agliano Brothers Trucking

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.3100	TONS

Comment:

Driver: Scott

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749014

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:33 am04-12-18 75040
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	75040
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	26420
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	24.31

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr.

Signature: Art Counts Date and Time: 4.12.18 0755

TRANSPORTER

Company: EDP / Agliano Bros Phone Number:

Address: Coopersburg PA Truck # and License Plate: 8 AE93892

Driver: Scott Wilson (Type or Print Clearly) SW Haulers Permit #: WHO 324 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4-12-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4-12-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853539

	Date	Time	Scale
In:	4/12/2018	09:41:21	CENCSCALE1
Out:	4/12/2018	09:43:16	

Manifest: 1749016

Vehicle ID: 02TDP201

Vehicle Permit: DESW-1657

	Lbs.	Tns
Gross:	69240.00	34.62
Tare:	25420.00	12.71
Net:	43820.00	21.91

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Two Dogs Propane, LLC / Progressive Prop

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650 Detroit, MI 19720

Job Address: 1445 Parkway Avenue Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.9100	TONS

Comment:

Driver: Alan

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749016

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards	09:38 am 04-12-18 69240 69240
	TARE WEIGHT: ☒ Tons ☐ Yards	25420
	NET WEIGHT: ☒ Tons ☐ Yards	71.91

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.12.18 0805

TRANSPORTER

Company: EDF / PROGRESSIVE PROPANE Phone Number: 215-805-6774

Address: 39 E CHERRY RD QUAKERTOWN PA Truck # and License Plate: 201 MG6335

Driver: ALAN PATE SW Haulers Permit #: WH 18505

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-12-18 0800

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4-17-18 0800

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853576

	Date	Time	Scale
In:	4/12/2018	09:51:42	CENCSCALE1
Out:	4/12/2018	09:54:30	

Manifest: 1749017

Vehicle ID: 02P11

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	70040.00	35.02
Tare:	28120.00	14.06
Net:	41920.00	20.96

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.9600	TONS

Comment:

Driver: Randy

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749017

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:48 am 04-12-18 ~~70860~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	70040
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28170
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	20.96

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Cuntz for Racer Title: Con Mgr

Signature: Art Cuntz Date and Time: 4.12.18 0810

TRANSPORTER

Company: GA Peak Phone Number: 215 723 7830

Address: 2850 Clymer Ave Telford Pa 18969 Truck # and License Plate: 11 AF 39406

Driver: RANDY LEGHON SW Haulers Permit #: 6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4-12-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4-12-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853583

	Date	Time	Scale
In:	4/12/2018	09:55:00	CENCSCALE1
Out:	4/12/2018	09:57:00	

Manifest: 1749018

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	71020.00	35.51
Tare:	27440.00	13.72
Net:	43580.00	21.79

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.7900	TONS

Comment:

Driver: Mark

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749018

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	08:51 am 04-12-18 ~~71080~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	71070
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27440
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	21.79

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.12.18 0815

TRANSPORTER

Company: S.A. Peak Exc. Phone Number: 215.723.7830

Address: 2850 Clymer Rd. Telford, Pa Truck # and License Plate: #16 AG12728

Driver: Mark Atkinson SW Haulers Permit #: WH6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/12/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/12/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853666

	Date	Time	Scale
In:	4/12/2018	10:22:16	CENCSCALE1
Out:	4/12/2018	10:24:18	

	Lbs.	Tns
Gross:	75620.00	37.81
Tare:	25780.00	12.89
Net:	49840.00	24.92

Manifest: 1749013

Vehicle ID: 02J01

Vehicle Permit: DESW-1460

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: J & JD Trucking Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.9200	TONS

Comment:

Driver: John

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749013

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	10:19 am 04-12-18 75620
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	75620
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25780
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	24.97

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.12.18 0750

TRANSPORTER

Company: EDP - J+JD Trucking Phone Number: 215 805 6724

Address: Briar Way Coopersburg Truck # and License Plate: A1-31939 Pa-01

Driver: John Rice SW Haulers Permit #: 1460

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: John Rice Date and Time: Apr. 12. 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: John Rice Date and Time: Apr. 12 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [illegible] Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853932

	Date	Time	Scale
In:	4/12/2018	12:09:56	CENCSCALE1
Out:	4/12/2018	12:12:06	

	Lbs.	Tns
Gross:	84300.00	42.15
Tare:	25140.00	12.57
Net:	59160.00	29.58

Manifest: 1749019

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	29.5800	TONS

Comment:

Driver: Dennis

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749019

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Former Delphi Trenton Facility/R.A.C.E.R. 1445 Parkway Avenue Ewing Township, NJ 08628 GENERATOR'S PHONE: 973-263-3900	GROSS WEIGHT: ☒ Tons ☐ Yards TARE WEIGHT: ☒ Tons ☐ Yards NET WEIGHT: ☒ Tons ☐ Yards	12:04 PM 04-12-18 84300 84300 25140 29.58

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.12.18 10:50

TRANSPORTER

Company: EDP TRANSPORT / Solebury Const - Inc Phone Number: 215 805-6774

Address: Coppersburg Pa 18036 Truck # and License Plate: TK-5 AG69367

Driver: Dennis Brady SW Haulers Permit #: WH-19086

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dennis Brady Date and Time: 4/12/18 10:50

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dennis Brady Date and Time: 4/12/18 10:50

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4/12/18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853941

	Date	Time	Scale
In:	4/12/2018	12:12:32	CENCSCALE1
Out:	4/12/2018	12:13:35	

Manifest: 1749022

Vehicle ID: 02AG28

Vehicle Permit: DESW-1362

	Lbs.	Tns
Gross:	72800.00	36.40
Tare:	26420.00	13.21
Net:	46380.00	23.19

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Agliano Brothers Trucking

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.1900	TONS

Comment:

Driver: Brandon

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749022

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	12:08 PM 04-12-18 72820 72820
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	26420
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	23.19

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4·12·18 1057

TRANSPORTER

Company: EDP / Agliano Phone Number: (215) 805-6774

Address: Coopersburg, Pa Truck # and License Plate: #28 / AE39557 (Pa)

Driver: Brandon Thomas (Type or Print Clearly) SW Haulers Permit #: WHO 324 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4/12/2018 11:00a

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4/12/2018

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4 / 12 / 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853957

	Date	Time	Scale
In:	4/12/2018	12:16:07	CENCSCALE1
Out:	4/12/2018	12:19:36	

	Lbs.	Tns
Gross:	69740.00	34.87
Tare:	27560.00	13.78
Net:	42180.00	21.09

Manifest: 1749020

Vehicle ID: 02P14

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.0900	TONS

Comment:

Driver: Griff

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749020

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards TARE WEIGHT: ☒ Tons ☐ Yards NET WEIGHT: ☒ Tons ☐ Yards
	12:11 pm 04-12-18 ~~69720~~ 69740 27560 41.09

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr
Signature: Art Counts Date and Time: 4.12.18
In - 10:40 Out - 10:55

TRANSPORTER

Company: JA Rock Exc Phone Number: 215 723 7830
Address: Telford PA Truck # and License Plate: 14 AF72897
Driver: Griff (Type or Print Clearly) SW Haulers Permit #: DESW1458 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4.12.18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4.12.18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4 12 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000853969

	Date	Time	Scale
In:	4/12/2018	12:19:51	CENCSCALE1
Out:	4/12/2018	12:21:54	

	Lbs.	Tns
Gross:	69940.00	34.97
Tare:	26700.00	13.35
Net:	43240.00	21.62

Manifest: 1749021

Vehicle ID: 02P12

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.6200	TONS

Comment:

Driver: Randy

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749021

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	69990 12:15 PM 04-12-18 69940
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	26700
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	21.62

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Jeff Cantz for Racer Title: Con Mgr

Signature: Jeff Cantz Date and Time: 4.12.18 1050

TRANSPORTER IN - 10:40 OUT - 10:55

Company: G.A. Peak Exc. Phone Number: 215-723-7930

Address: Telford, Pa Truck # and License Plate: 12 AG 45802

Driver: Randy Smith (Type or Print Clearly) SW Haulers Permit #: DESW 1458 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Randy Smith Date and Time: 04/12/2018

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Randy Smith Date and Time: 04/12/2018 12:15pm

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4 12 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854016

	Date	Time	Scale
In:	4/12/2018	12:42:37	CENCSCALE1
Out:	4/12/2018	12:43:39	

	Lbs.	Tns
Gross:	72800.00	36.40
Tare:	26420.00	13.21
Net:	46380.00	23.19

Manifest: 1749025

Vehicle ID: 02AG08

Vehicle Permit: DESW-1362

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Agliano Brothers Trucking

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.1900	TONS

Comment:

Driver: Scott

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749025

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:39 pm 04-12-18 ~~72820~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	72800
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	36420
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	36.19

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4.12.18 1105

TRANSPORTER

Company: EDP/Agliano Bros Phone Number:

Address: Coopersburg PA Truck # and License Plate: 8 AE93892

Driver: Scott Wilson (Type or Print Clearly) SW Haulers Permit #: WM.O 324 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Scott Wilson Date and Time: 4-12-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Scott Wilson Date and Time: 4-12-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854024

	Date	Time	Scale
In:	4/12/2018	12:44:29	CENCSCALE1
Out:	4/12/2018	12:45:33	

	Lbs.	Tns
Gross:	74560.00	37.28
Tare:	25320.00	12.66
Net:	49240.00	24.62

Manifest: 1749023

Vehicle ID: 02E176

Vehicle Permit: DESW-1434

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: EDP Inc dba EDP Transport

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.6200	TONS

Comment:

Driver: Dixon

Facility: _____
Buckley, Robert

CLEAN

Manifest # 1749023

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:40 PM 04-12-18 74560
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	74560
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25370
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	24.67

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr.

Signature: Art Counts Date and Time: 4.12.18 1105

TRANSPORTER

Company: EDP TRANSPORT Phone Number: 215 805 6774

Address: Coopersburg Truck # and License Plate: 176/AG 18295

Driver: Dixon Conrad SW Haulers Permit #: DESW 1434

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4/12/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4/12/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854057

	Date	Time	Scale
In:	4/12/2018	12:51:49	CENCSCALE1
Out:	4/12/2018	12:53:27	

Manifest: 1749024

Vehicle ID: 02TDP201

Vehicle Permit: DESW-1657

	Lbs.	Tns
Gross:	80820.00	40.41
Tare:	25420.00	12.71
Net:	55400.00	27.70

Customer: HALEY & ALDRICH CONSTRUCTION SERVICES

Carrier: Two Dogs Propane, LLC / Progressive Prop

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	27.7000	TONS

Comment:

Driver: Alan

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749024

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:48 PM 04-12-18 80820
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	80820
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25470
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	27.70

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4-12-18 11:20

TRANSPORTER

Company: EDP/Progressive Propane Phone Number: 215-605-6774

Address: 39 & Cherry Rd Quakertown PA Truck # and License Plate: 701 HG60335

Driver: Allan Tate SW Haulers Permit #: WH 18505

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-12-18 11:20

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-12-18 11:20

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854069

	Date	Time	Scale
In:	4/12/2018	12:57:01	CENCSCALE1
Out:	4/12/2018	12:58:16	

	Lbs.	Tns
Gross:	70960.00	35.48
Tare:	27440.00	13.72
Net:	43520.00	21.76

Manifest: 1749027

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.7600	TONS

Comment:

Driver: Mark

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749027

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:53 PM 04-12-18 70960
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	70960
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27440
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	21.76

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con. Mgr

Signature: Art Countz Date and Time: 4.12.18 1135

TRANSPORTER

Company: G. A. Peak Exc. Phone Number: 215.723.7830

Address: 2850 Clymer Rd. Telford Pa. Truck # and License Plate: #16 AG12728

Driver: Mark Atkinson SW Haulers Permit #: WH6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/12/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/12/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854073

	Date	Time	Scale
In:	4/12/2018	12:59:26	CENCSCALE1
Out:	4/12/2018	13:01:03	

Manifest: 1749026

Vehicle ID: 02P11

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	70920.00	35.46
Tare:	28120.00	14.06
Net:	42800.00	21.40

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.4000	TONS

Comment:

Driver: Randy

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749026

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	12:55 PM 04-12-18 ~~40940~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	70920
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28120
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	71.40

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for RACE — Title: Con Mgr.

Signature: Art Counts — Date and Time: 4.12.18 1130

TRANSPORTER

Company: GA Peak Exc. — Phone Number: 215 723 7830

Address: 2850 Clymer Ave Telford Pa 18969 — Truck # and License Plate: 11 AF 39406

Driver: RANDY LEMON (Type or Print Clearly) — SW Haulers Permit #: 6795 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: R E Lemon — Date and Time: 4-12-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: REL — Date and Time: 4-12-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] — Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854085

	Date	Time	Scale
In:	4/12/2018	13:04:06	CENCSCALE1
Out:	4/12/2018	13:06:13	

Manifest: 1749028

Vehicle ID: 02J01

Vehicle Permit: DESW-1460

	Lbs.	Tns
Gross:	71140.00	35.57
Tare:	25780.00	12.89
Net:	45360.00	22.68

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: J & JD Trucking Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.6800	TONS

Comment:

Driver: John

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749028

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	01:30 pm04-12-18 ~~71120~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	71140
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25780
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	22.68

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4.12.18 1145

TRANSPORTER

Company: EDP JJD Trucking Phone Number: 215 505 6774

Address: Briar Way Coopersburg Truck # and License Plate: AF 31935 Pa-01

Driver: John Nace SW Haulers Permit #: 1460

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: John Nace Date and Time: Apr. 12, 18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: John Nace Date and Time: Apr. 12, 18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854234

	Date	Time	Scale
In:	4/12/2018	14:19:42	CENCSCALE1
Out:	4/12/2018	14:23:35	

Manifest: 1749031

Vehicle ID: 02CH07

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	73020.00	36.51
Tare:	26060.00	13.03
Net:	46960.00	23.48

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.4800	TONS

Comment:

Driver: Mike

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749031

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	02:15 PM04-12-18 73020
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	73020
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	26060
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	23.48

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4-12-18 1310

TRANSPORTER

Company: Costa Haulers Phone Number: 856-341-4412

Address: 11 Fairmont Drive Columbus, NJ Truck # and License Plate: #7 AT2222

Driver: Michael Costa SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-12-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4-12-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854240

	Date	Time	Scale
In:	4/12/2018	14:24:44	CENCSCALE1
Out:	4/12/2018	14:26:35	

Manifest: 1749029

Vehicle ID: 02CH04

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	65780.00	32.89
Tare:	28460.00	14.23
Net:	37320.00	18.66

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	18.6600	TONS

Comment:

Driver: Calvin

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749029

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	02:21 Pm04-12-18 65780
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	65780
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	28460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	18.66

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.12.18 1300

TRANSPORTER

Company: Costa Phone Number:

Address: Truck # and License Plate: 4 AS 3145

Driver: Calvin SW Haulers Permit #: 02209

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4/12/18 1:00

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854269

	Date	Time	Scale
In:	4/12/2018	14:43:55	CENCSCALE1
Out:	4/12/2018	14:45:23	

Manifest: 1749030

Vehicle ID: 02CH03

Vehicle Permit: DESW-1521

	Lbs.	Tns
Gross:	68520.00	34.26
Tare:	27940.00	13.97
Net:	40580.00	20.29

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Costa Haulers, LLC

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.2900	TONS

Comment:

Driver: Costa

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749030

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	02:40 pm 04-12-18
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	68520
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	37940
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	30.29

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Conte for Racer Title: Con Mgr

Signature: Art Conte Date and Time: 4.12.18 1305

TRANSPORTER

Company: Costa Haulers Phone Number:

Address: Truck # and License Plate: #3 AS864B

Driver: Antonio Costa SW Haulers Permit #: 152

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-12-18 1305

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4-12-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854273

	Date	Time	Scale
In:	4/12/2018	14:46:37	CENCSCALE1
Out:	4/12/2018	14:48:41	

Manifest: 1749032

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

	Lbs.	Tns
Gross:	71360.00	35.68
Tare:	25140.00	12.57
Net:	46220.00	23.11

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.1100	TONS

Comment:

Driver: Dennis

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749032

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	02143 FM04-12-18 T1360
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	71360
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	35140
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	23.11

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4-12-18 1330

TRANSPORTER

Company: EDP TRANSPORT / Soleburg CONST INC Phone Number: 215-805-6774

Address: Copperburg PA 18036 Truck # and License Plate: TK-5 AG 69367

Driver: Dennis Brady (Type or Print Clearly) SW Haulers Permit #: WH-19086 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dennis Brady Date and Time: 4/12/18 13:40

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dennis Brady Date and Time: 4/12/18 13:40

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854277

	Date	Time	Scale
In:	4/12/2018	14:51:08	CENCSCALE1
Out:	4/12/2018	14:52:29	

	Lbs.	Tns
Gross:	68060.00	34.03
Tare:	26420.00	13.21
Net:	41640.00	20.82

Manifest: 1749033

Vehicle ID: 02AG28

Vehicle Permit: DESW-1362

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Agliano Brothers Trucking

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.8200	TONS

Comment:

Driver: Brandon

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749033

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	02:47 PM04-12-18 68060
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	68060
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	37420
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	30.82

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.12.18 1340

TRANSPORTER

Company: EDP/Agliano Phone Number: (215) 805-6774

Address: Coopersburg, PA Truck # and License Plate: #28 AE 39557 (PA)

Driver: Brandon Thomas SW Haulers Permit #: WHO 324

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4/12/2018 1:40p

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 4/12/2018

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854312

	Date	Time	Scale
In:	4/12/2018	15:21:09	CENCSCALE1
Out:	4/12/2018	15:22:15	

Manifest: 1749034

Vehicle ID: 02P14

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	72700.00	36.35
Tare:	27560.00	13.78
Net:	45140.00	22.57

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.5700	TONS

Comment:

Driver: Griff

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749034

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	07:17 PM 04-12-18 72700
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	72700
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27560
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	22.57

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con. Mgr

Signature: Art Counts Date and Time: 4.12.18 1345

TRANSPORTER

Company: G A Peak Exc. Phone Number: 215 723 7830

Address: Telford PA Truck # and License Plate: 14 AF72897

Driver: Griff (Type or Print Clearly) SW Haulers Permit #: DESW1455 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Griff Date and Time: 4.12.18 1:55

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Griff Date and Time: 4.12.18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854313

	Date	Time	Scale
In:	4/12/2018	15:23:41	CENCSCALE1
Out:	4/12/2018	15:24:53	

	Lbs.	Tns
Gross:	72120.00	36.06
Tare:	26700.00	13.35
Net:	45420.00	22.71

Manifest: 1749035

Vehicle ID: 02P12

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.7100	TONS

Comment:

Driver: Randy

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749035

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	03:20 pm 04-12-18 72120
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	72120
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	26700
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	22.71

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.12.18 1400

TRANSPORTER 10-1:40pm out 2:00pm

Company: B.A. Peak Phone Number: 215-723-7830

Address: Telford PA Truck = and License Plate: #12 AG 45302

Driver: Randy Smith (Type or Print Clearly) SW Haulers Permit #: DE SW 1456 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Randy Smith Date and Time: 04/12/18 2:00pm

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Randy Smith Date and Time: 04/12/18 3:20 pm

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854331

	Date	Time	Scale
In:	4/12/2018	15:42:18	CENCSCALE1
Out:	4/12/2018	15:43:11	

Manifest: 1749036

Vehicle ID: 02E176

Vehicle Permit: DESW-1434

	Lbs.	Tns
Gross:	71920.00	35.96
Tare:	25320.00	12.66
Net:	46600.00	23.30

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: EDP Inc dba EDP Transport

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.3000	TONS

Comment:

Driver: Dixon

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749036

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	03:38 PM 04-12-18 71920
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	71920
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	25370
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	23.30

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4-12-18 1420

TRANSPORTER

Company: EDP TRANSPORT Phone Number: 215 805 6774

Address: Cookersburg Truck # and License Plate: 176/AG18295

Driver: David Conrad SW Haulers Permit #: DESW 1434

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: David Conrad Date and Time: 4/12/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: David Conrad Date and Time: 4/12/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-12-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854346

	Date	Time	Scale
In:	4/12/2018	15:59:38	CENCSCALE1
Out:	4/12/2018	16:00:46	

Manifest: 1749037

Vehicle ID: 02TDP201

Vehicle Permit: DESW-1657

	Lbs.	Tns
Gross:	73540.00	36.77
Tare:	25420.00	12.71
Net:	48120.00	24.06

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Two Dogs Propane, LLC / Progressive Prop

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.0600	TONS

Comment:

Driver: Al

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749037

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Former Delphi Trenton Facility/R.A.C.E.R. 1445 Parkway Avenue Ewing Township, NJ 08628	GROSS WEIGHT: ☒ Tons ☐ Yards	73540 07:54 en04-17-18 73520
	TARE WEIGHT: ☒ Tons ☐ Yards	25420
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT: ☒ Tons ☐ Yards	24.06

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4·12·18 1425

TRANSPORTER

Company: EDP / Progressive Propane Phone Number: 215-805-6794

Address: 39 E Cherry Rd Quakertown PA Truck # and License Plate: 201 AG60335

Driver: Alan Tate (Type or Print Clearly) SW Haulers Permit #: WH 18505 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4/12/18 2120

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4/12/18 2120

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4 12 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854350

	Date	Time	Scale
In:	4/12/2018	16:04:12	CENCSCALE1
Out:	4/12/2018	16:05:28	

	Lbs.	Tns
Gross:	70380.00	35.19
Tare:	28120.00	14.06
Net:	42260.00	21.13

Manifest: 1749038

Vehicle ID: 02P11

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	21.1300	TONS

Comment:

Driver: Randy

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749038

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: **Former Delphi Trenton Facility/R.A.C.E.R.** **1445 Parkway Avenue** **Ewing Township, NJ 08628** GENERATOR'S PHONE: **973-263-3900**	GROSS WEIGHT: ☒ Tons ☐ Yards 04:00 PM 04-12-18 70380 70380 TARE WEIGHT: ☒ Tons ☐ Yards 28120 NET WEIGHT: ☒ Tons ☐ Yards 21.13

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Agt Counts for Racer Title: Con Mgr

Signature: Agt Counts Date and Time: 4.12.18 1435

TRANSPORTER

Company: GA Peak Exc. Phone Number: 215 723 7830

Address: 2850 Clymer Ave Telford Pa 18969 Truck # and License Plate: 11 39406

Driver: RANDY LEMON (Type or Print Clearly) SW Haulers Permit #: 6795 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: RE Date and Time: 4-12-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: RE Date and Time: 4-12-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4 / 12 / 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000854352

	Date	Time	Scale
In:	4/12/2018	16:05:39	CENCSCALE1
Out:	4/12/2018	16:08:09	

	Lbs.	Tns
Gross:	75520.00	37.76
Tare:	27440.00	13.72
Net:	48080.00	24.04

Manifest: 1749039

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.0400	TONS

Comment:

Driver: Mark

Facility: _____
Buckley, Robert

CLEAN EARTH

Manifest # 1749039

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	75520 04:02 pm 04-12-18 ~~75340~~
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27440
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	24.04

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.12.18 1445

TRANSPORTER

Company: G. A. Peak Exc Phone Number: 215.723.7830

Address: 2850 Clymer Rd. Telford Pa. Truck # and License Plate: #16 AG12728

Driver: Mark Atkinson (Type or Print Clearly) SW Haulers Permit #: WH6795 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/12/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/12/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4 12 18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857386

	Date	Time	Scale
In:	4/18/2018	08:50:34	CENCSCALE1
Out:	4/18/2018	08:52:15	

Manifest: 1749040

Vehicle ID: 02BMF1

Vehicle Permit: DESW-1448

	Lbs.	Tns
Gross:	70540.00	35.27
Tare:	26460.00	13.23
Net:	44080.00	22.04

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: BMF Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.0400	TONS

Comment:

Driver: Barry

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749040

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	70540
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	36460
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	34.04

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Agt. Courte for Racer Title: Con Mgr

Signature: Art Courtz Date and Time: _____

TRANSPORTER

Company: DPI BMF Phone Number: 215 825 6777

Address: Edgely by Pa Truck # and License Plate: BMF-1 AE781?4

Driver: Larry Fennimore (Type or Print Clearly) SW Haulers Permit #: DE SW 144? (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4-18-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4-18-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-18-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857420

	Date	Time	Scale
In:	4/18/2018	09:08:54	CENCSCALE1
Out:	4/18/2018	09:09:49	

Manifest: 1749041

Vehicle ID: 02SC05

Vehicle Permit: DE-SW 1708

	Lbs.	Tns
Gross:	75660.00	37.83
Tare:	25140.00	12.57
Net:	50520.00	25.26

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Solebury Construction, Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	25.2600	TONS

Comment:

Driver: Dennis

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749041

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:05 am 04-18-18 75660
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	75660
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	75140
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	75.76

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counter for Racer Title: Con. Mgr.

Signature: Art Counter Date and Time: 4/18/18

TRANSPORTER

Company: EDP Transport / Solebury Const Inc Phone Number: 215 805-6774

Address: Coppersburg, PA 18036 Truck # and License Plate: TK-5 AG69367

Driver: Dennis Brady (Type or Print Clearly) SW Haulers Permit #: WH - 19056 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Dennis Brady Date and Time: 4/18/18 7:40

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Dennis Brady Date and Time: 4/18/18 7:40

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-18-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857442

	Date	Time	Scale
In:	4/18/2018	09:17:50	CENCSCALE1
Out:	4/18/2018	09:19:10	

Manifest: 1749042

Vehicle ID: 02DRW91

Vehicle Permit: DESW-1494

	Lbs.	Tns
Gross:	73940.00	36.97
Tare:	25140.00	12.57
Net:	48800.00	24.40

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: DRW Hauling

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	24.4000	TONS

Comment:

Driver: Dave

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749042

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:14 am04-18-18 ~~73920~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	73940
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	35140
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	34.40

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Cons Mgr

Signature: Art Countz Date and Time: 4/18/18

TRANSPORTER

Company: CDP/Dela Phone Number: 215-805-6774

Address: Coatesville Truck # and License Plate: 91-AF83411

Driver: Steve Wilson SW Haulers Permit #: DESW1494

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4-18-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4-18-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857453

	Date	Time	Scale
In:	4/18/2018	09:23:58	CENCSCALE1
Out:	4/18/2018	09:25:25	

	Lbs.	Tns
Gross:	70320.00	35.16
Tare:	25420.00	12.71
Net:	44900.00	22.45

Manifest: 1749043

Vehicle ID: 02TDP201

Vehicle Permit: DESW-1657

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Two Dogs Propane, LLC / Progressive Prop

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	22.4500	TONS

Comment:

Driver: Alan

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749043

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	07:25 am 04-18-18 ~~70200~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	70370
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	75420
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	32.45

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4/18/18

TRANSPORTER

Company: EDP/Progressive Propane Phone Number: 215-805-6774

Address: 34 & Cherry Rd Quakertown PA Truck # and License Plate: 201 [redacted] AG-60335

Driver: Alan Tate (Type or Print Clearly) SW Haulers Permit #: WH 18505 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4-18-18 7:40

DESTINATION

I hereby certify that the above named material was ~~delivered~~ without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4/18/18 7:40

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-18-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857457

	Date	Time	Scale
In:	4/18/2018	09:25:54	CENCSCALE1
Out:	4/18/2018	09:27:04	

	Lbs.	Tns
Gross:	66880.00	33.44
Tare:	27460.00	13.73
Net:	39420.00	19.71

Manifest: 1749044

Vehicle ID: 02P19

Vehicle Permit: DESW-1458

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	19.7100	TONS

Comment:

Driver: Mike

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749044

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:22 am04-18-18 66880
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	66880
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	47460
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	19.71

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Countz for Racer Title: Con Mgr

Signature: Art Countz Date and Time: 4-18-18

TRANSPORTER

Company: G. A. Reak Phone Number: 215-723-7830

Address: 2650 Clymer Ave Telford, Pa Truck # and License Plate: 19 AG54184

Driver: Mike Snell SW Haulers Permit #: 6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4/18/18 7:50

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4/18/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-18-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857474

	Date	Time	Scale
In:	4/18/2018	09:35:19	CENCSCALE1
Out:	4/18/2018	09:36:59	

Manifest: 1749046

Vehicle ID: 02P16

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	69420.00	34.71
Tare:	27440.00	13.72
Net:	41980.00	20.99

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	20.9900	TONS

Comment:

Driver: Mark

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749046

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:31 am04-18-18 ~~63440~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	63470
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	37440
GENERATOR'S PHONE: 973-263-3900	NET WEIGHT:	
	☒ Tons ☐ Yards	30.99

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.18.18

TRANSPORTER

Company: G.A. Peak Exc Phone Number: 215.723.7830

Address: 2850 Clymer Rd. Telford, Pa. Truck # and License Plate: #16 AG12728

Driver: Mark Atkinson SW Haulers Permit #: WH6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Mark Atkinson Date and Time: 4/18/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Mark Atkinson Date and Time: 4/18/18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-18-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857481

	Date	Time	Scale
In:	4/18/2018	09:39:20	CENCSCALE1
Out:	4/18/2018	09:40:51	

Manifest: 1749045

Vehicle ID: 02P11

Vehicle Permit: DESW-1458

	Lbs.	Tns
Gross:	66560.00	33.28
Tare:	28120.00	14.06
Net:	38440.00	19.22

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: G A Peak Excavating Inc

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	19.2200	TONS

Comment:

Driver: Randy

Facility: _____
Napier, Jim

CLEAN

Manifest # 1749045

GLOBAL JOB NUMBER: 148656 FACILITY APPROVAL NUMBER: 183020035

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☒ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	09:36 am 04-18-18 ~~66560~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	66560
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	38170
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	19.77

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.18.18

TRANSPORTER

Company: G.A. Peck Phone Number: 215 723 7530

Address: 2850 Clymer Av. Telford Pa 18969 Truck # and License Plate: 11 AF 39406

Driver: RANDY LEMON SW Haulers Permit #: 6795

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: R Lemon Date and Time: 4-18-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: R Lemon Date and Time: 4-18-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4-18-18

FACILITY

Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 3024276633 Fax: 3024276634

Ticket: 700000857604

	Date	Time	Scale
In:	4/18/2018	10:45:26	CENCSCALE1
Out:	4/18/2018	10:46:44	

	Lbs.	Tns
Gross:	73600.00	36.80
Tare:	27420.00	13.71
Net:	46180.00	23.09

Manifest: 1749047

Vehicle ID: 02AG19

Vehicle Permit: DESW-1362

Customer: HALEY & ALDRICH
CONSTRUCTION SERVICES

Carrier: Agliano Brothers Trucking

Facility Approval#: 183020035

Generator: R.A.C.E.R.

Gen Address: 500 Woodward Ave. Suite 2650
Detroit, MI 19720

Job Name: Former Delphi Trenton Facility/R.A.C.E.R

Job Address: 1445 Parkway Avenue
Ewing Township, NJ 08628

Contaminate Type	Quantity	Unit
Soil Treatment Type I	23.0900	TONS

Comment:

Driver: Jared

Facility: _____
Napier, Jim

CLEAN EARTH

Manifest # 1749047

GLOBAL JOB NUMBER: 148656 **FACILITY APPROVAL NUMBER:** 183020035

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☒ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	10:42 am04-18-18 ~~73620~~
Former Delphi Trenton Facility/R.A.C.E.R.	☒ Tons ☐ Yards	73600
1445 Parkway Avenue	TARE WEIGHT:	
Ewing Township, NJ 08628	☒ Tons ☐ Yards	27420
GENERATOR'S PHONE: **973-263-3900**	NET WEIGHT:	
	☒ Tons ☐ Yards	23.09

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-haz contaminated soil

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Art Counts for Racer Title: Con Mgr

Signature: Art Counts Date and Time: 4.18.18

TRANSPORTER

Company: Agliano Brothers Phone Number: 484 942 9997

Address: 248 Stone Rd Boyertown, PA 19604 Truck # and License Plate: 19 / AE 81766

Driver: Jared Reid (Type or Print Clearly) SW Haulers Permit #: 1362 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Jared Reid Date and Time: 4/18/18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: X Jared Reid Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 4-18-18

FACILITY

IDW WATER DISCHARGE APPROVAL TO ELSA SYSTEM

Quafisi, Dimitri

From: Thoune, Benjamin
Sent: Monday, April 30, 2018 11:04 AM
To: DeGrande, Jeremy; Countz, Arthur
Subject: FW: 128598: Sanitary Sewer Discharge

We've received permission from ELSA to discharge. I will follow up with the tax office again this morning, and also look into the county information.

Ben Thoune
906.290.6698

From: William Carmichael <WCarmichael@elsanj.com>
Sent: Monday, April 30, 2018 10:39 AM
To: Thoune, Benjamin <BThoune@haleyaldrich.com>
Subject: RE: 128598: Sanitary Sewer Discharge

Ben,
We reviewed your submitted analytical data for the proposed 5,000 gallon frac-tank discharge to the ELSA wastewater treatment system. You are permitted to discharge this wastewater into our system via the Parkway Avenue pipeline. Do not discharge at such a rate as to cause upset or overflow of the lateral or main line.

Regards,

Bill Carmichael
Ewing-Lawrence Sewerage Authority
(609) 587-4061 PHONE

From: Thoune, Benjamin [mailto:BThoune@haleyaldrich.com]
Sent: Thursday, April 26, 2018 1:44 PM
To: William Carmichael <WCarmichael@elsanj.com>
Cc: DeGrande, Jeremy <JDeGrande@haleyaldrich.com>
Subject: 128598: Sanitary Sewer Discharge

Bill,

Thanks for speaking with me earlier today. As a reminder, our jobsite is currently in Ewing Township at 1445 Parkway Avenue, and we currently have approximately 5,000 gallons of surface water currently being stored in a frac tank onsite. We would like to discharge this water into Ewing Township's sanitary sewer, and I've attached the analytical results of the water to be disposed of in this email.

Please reach out with any questions or concerns,

Benjamin Thoune, E.I.T.
Construction Techcnician

Haley & Aldrich Construction Services, Inc.

598 Byrne Industrial Drive
Rockford, MI 49341

CLEAN BACKFILL SCREENED FILL

Hanson
HEIDELBERGCEMENT Group

March 8, 2018

Jeremy DeGrande
HCS, Inc.
598 Byrne Industrial Drive
Rockford, MI 49341

Re: #10 screenings

Dear Jeremy:

The following are the current average gradation results for the #10 screenings that is produced at the Penns Park plant and will be supplied to your project. This letter is to confirm that the #10 screenings is clean in that it is a virgin material free of clay, silt, vegetation, and other deleterious substances such as reactive chert, gypsum, iron sulfide, amorphous silica, and hydrated iron oxide. The material complies with the requirements of Penn Dot publication 408 Section 703.

	#10
Sieve/Test	**Average**
3/8" (9.5mm)	100.0
#4 (4.75mm)	99.7
#8 (2.36mm)	81.6
#16 (1.18mm)	48.2
#30 (0.6mm)	27.0
#50 (0.3mm)	15.2
#100 (0.15mm)	8.8
#200 (75um)	5.22

The Penns Park quarry is located in Penns Park, Bucks County, Pennsylvania. This is a bedrock argillite mine that was previously wooded and to the best of my knowledge, unfarmed, thereby minimizing the likelihood of the presence of any hazardous materials. We routinely ship material from this location and we have never found anything that can be construed as being classified as hazardous.

I certify this information is correct to the best of my knowledge. If I can be of further assistance, please give me a call.

Sincerely,

Dave Bates
Sales Representative
Hanson Aggregates

FROM: TO:9161764168879 03/08/2018 09:10:54 #36540 P.001/001

TOPSOIL BACKFILL

CERTIFIED TESTING LABORATORIES, INC.

CLIENT: Britton Industries, Inc.
227 Bakers Basin Road
Lawrenceville, NJ 08648

DATE: 3/7/18

LAB NO.: B-203-18

PROJECT: Quality Control

REPORT NO.: AG-1

ON SAMPLE OF: Top Soil Material

RECEIVED: 3/1/18

SAMPLED BY: Client

MARKED: Sample #1 LT-118, Topsoil

EXAMINED WITH THE FOLLOWING RESULTS:

1. Grain Size Analysis (ASTM D422).

Sieve Size	% Passing
2"	100
1"	100
3/4"	100
3/8"	100
#4	97.8
#10	94.8
#18	75.7
#35	62.0
#60	38.9
#140	28.4
#270	26.2

Hydrometer Analysis		NJ DOT Spec.
% Gravel:	5.2	20% Max
% Sand (2.000 to 0.050mm):	72.3	40-80
% Silt (0.050 to 0.005mm):	17.5	0-30
% Clay (0.005 to smaller):	10.2	10-30

		NJDOT Specifications
2. pH Value (ASTM D4972):	6.0	5.8-7.0
3. % Organics (ASTM D2974):	5.7	Min. – 2.75

Respectfully Submitted
CERTIFIED TESTING LABORATORIES, INC.

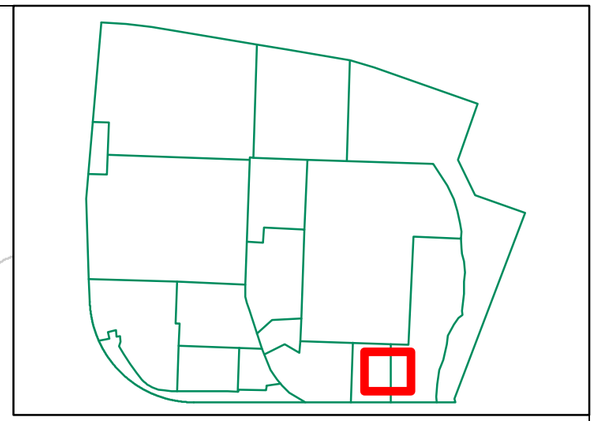
Terry Kifer, General Manager

TK/Kd

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155 US Route 130 • Bordentown, NJ 08505 • (609) 298-3255 • Fax (609) 298-7288

APPENDIX J

Excavation Plans



MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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N

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SCALE IN FEET

HALEY ALDRICH

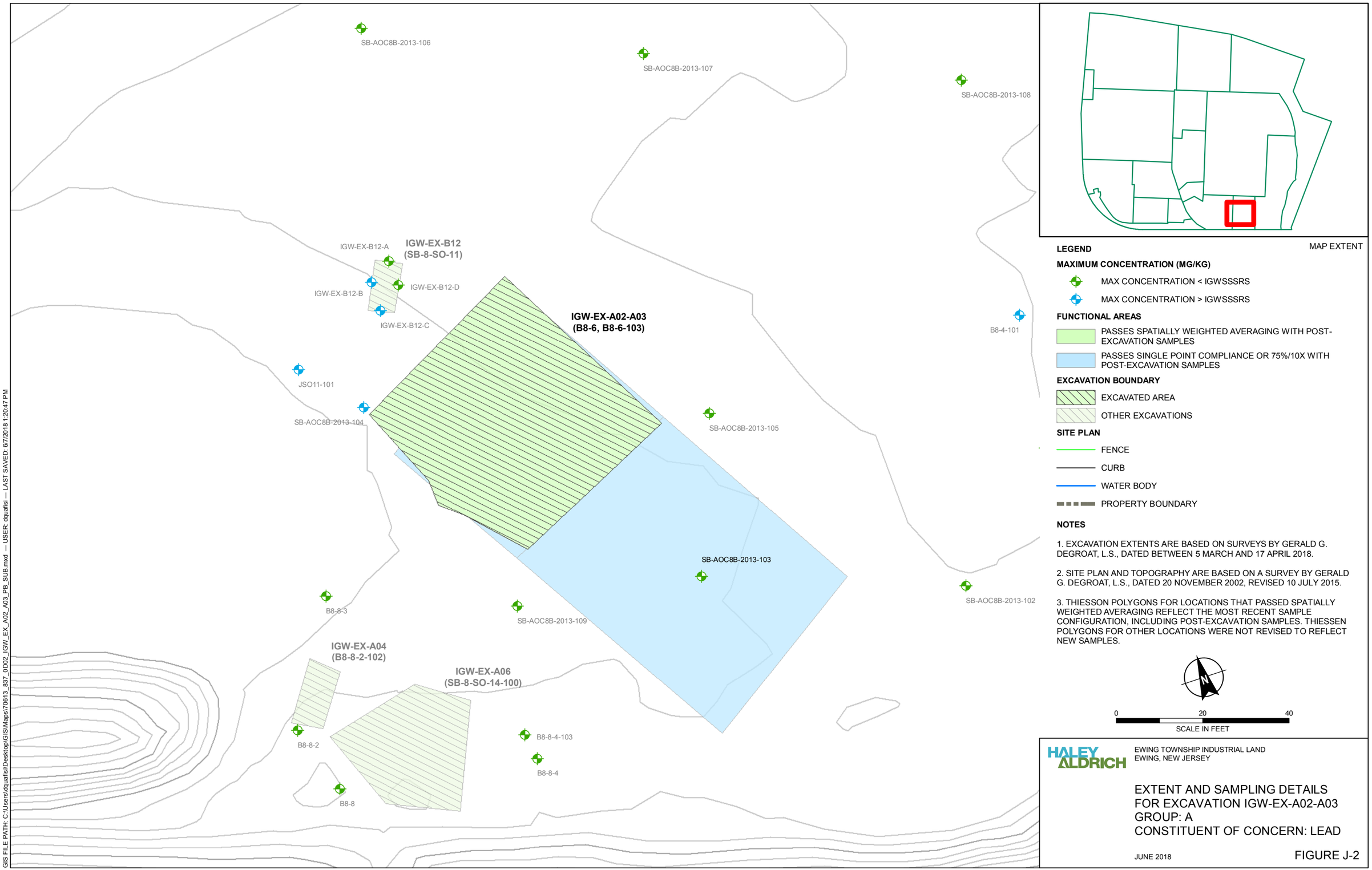
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-A01 GROUP: A CONSTITUENT OF CONCERN: LEAD

JUNE 2018

FIGURE J-1

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D01_IGW_EX_A01_PB_SUB.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:23:10 PM



MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

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SCALE IN FEET

HALEY ALDRICH

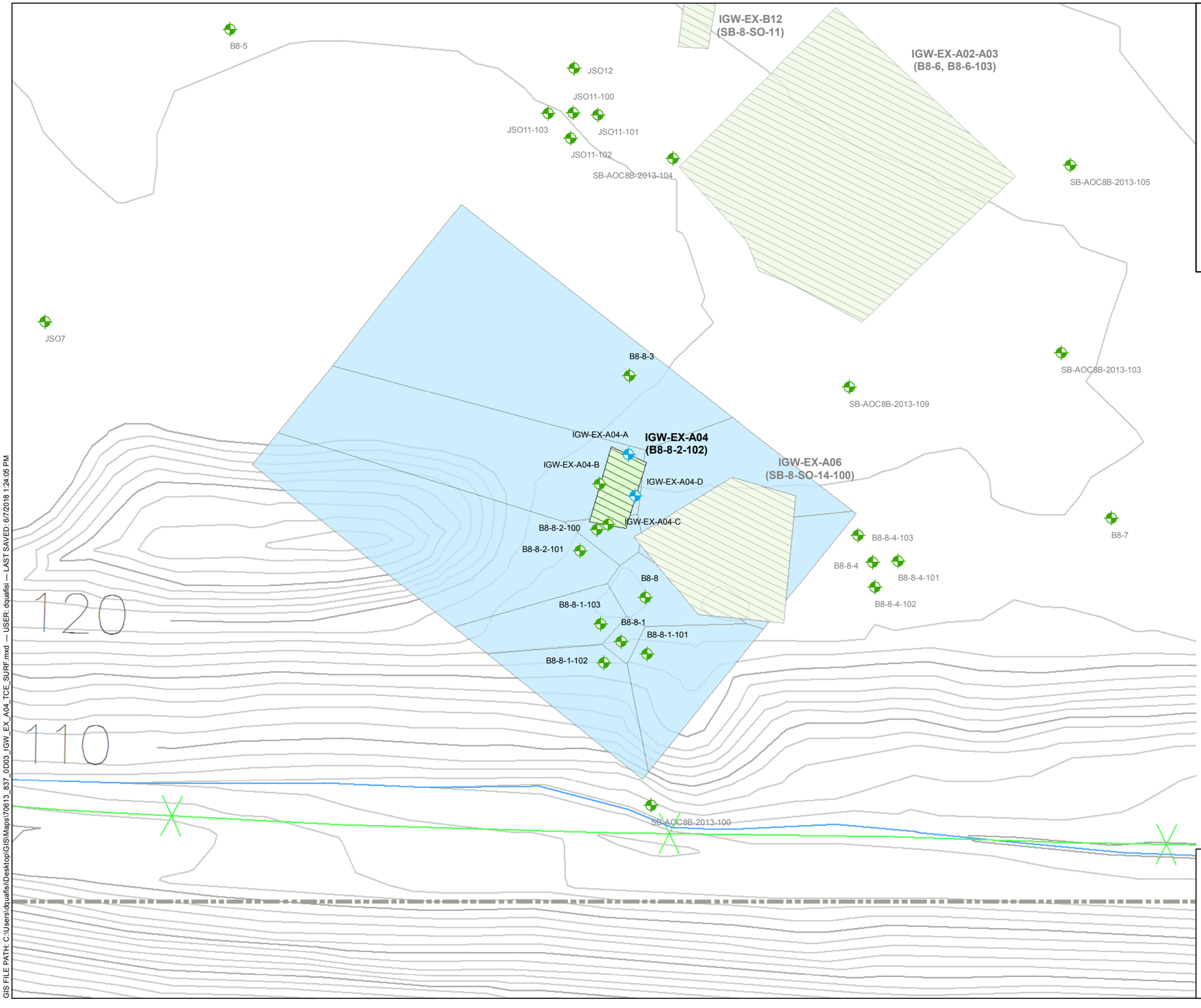
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-A02-A03
GROUP: A
CONSTITUENT OF CONCERN: LEAD

JUNE 2018

FIGURE J-2

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D02_IGW_EX_A02_A03_PB_SUB.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:20:47 PM



MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

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SCALE IN FEET

HALEY ALDRICH

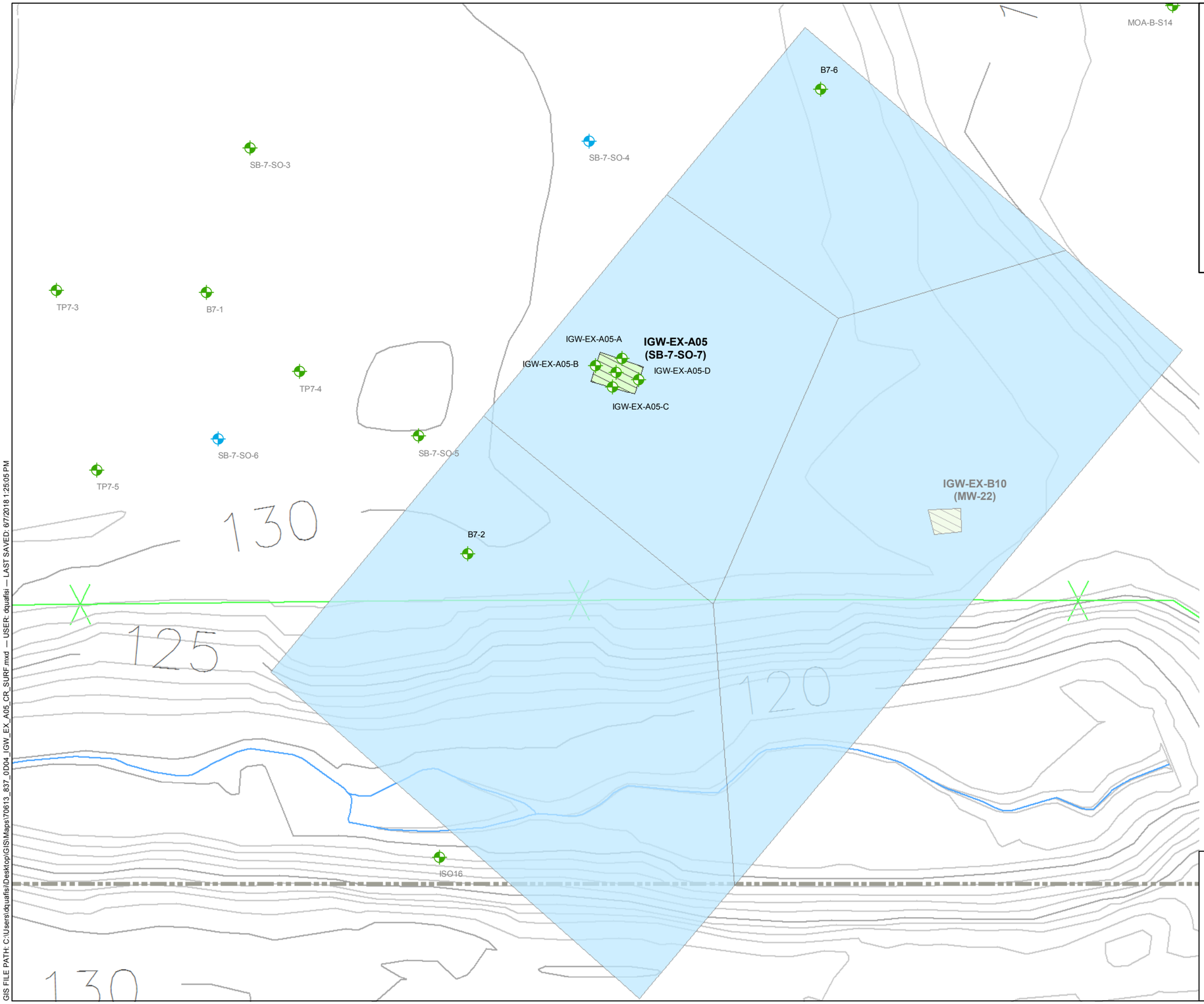
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EWING, NEW JERSEY

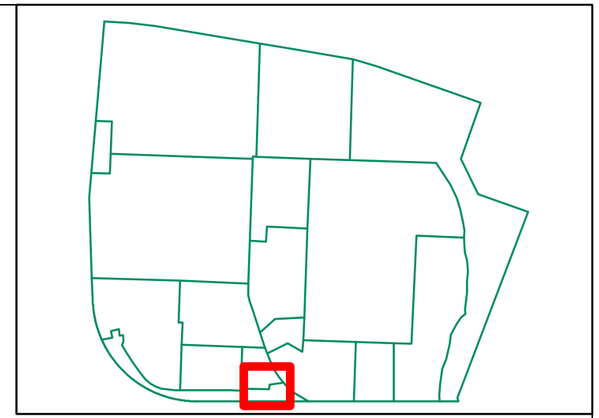
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-A04 GROUP: A CONSTITUENT OF CONCERN: TCE

JUNE 2018

FIGURE J-3

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MAP EXTENT

LEGEND

Max_Chromium_N

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

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N

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SCALE IN FEET

HALEY ALDRICH

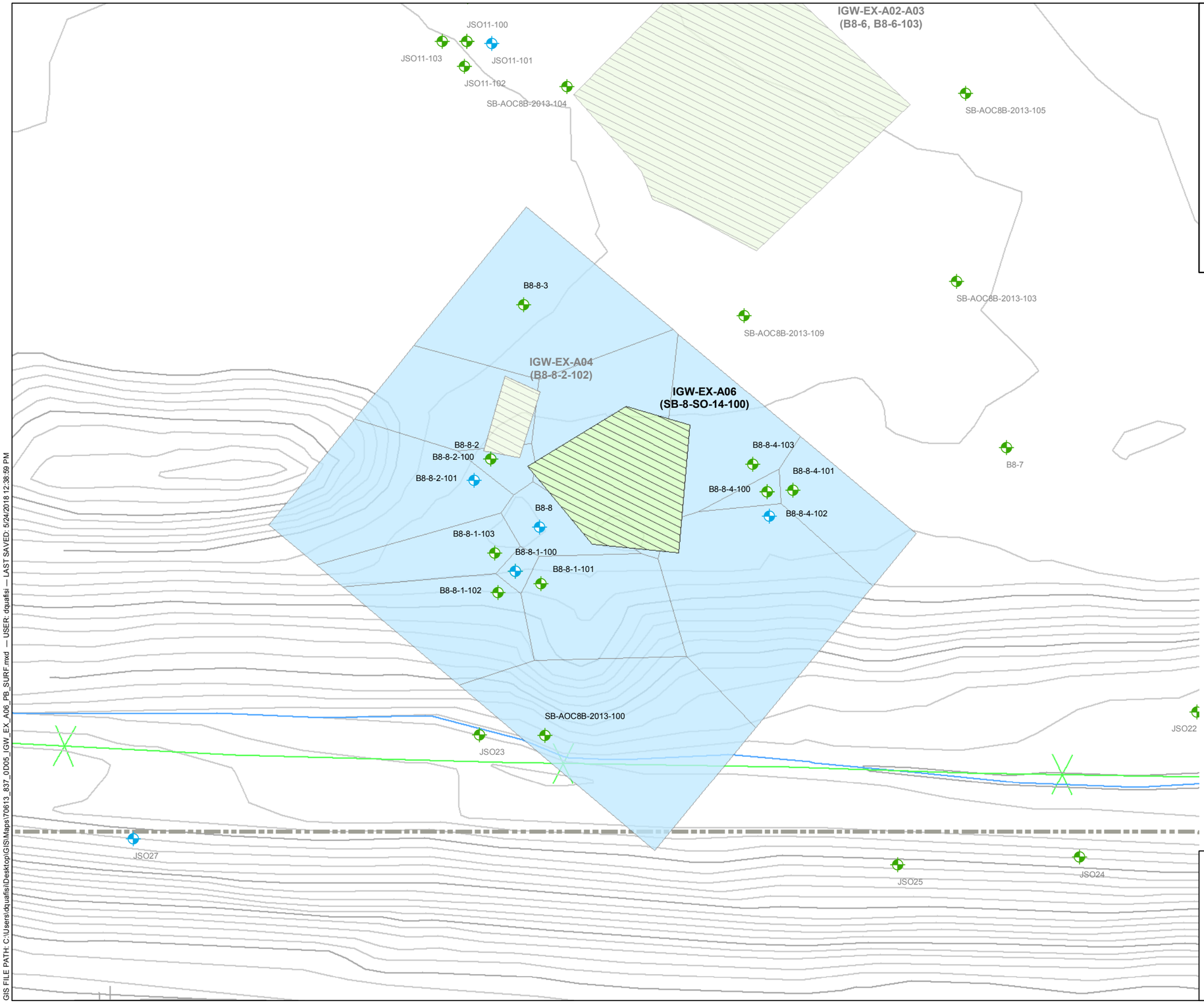
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

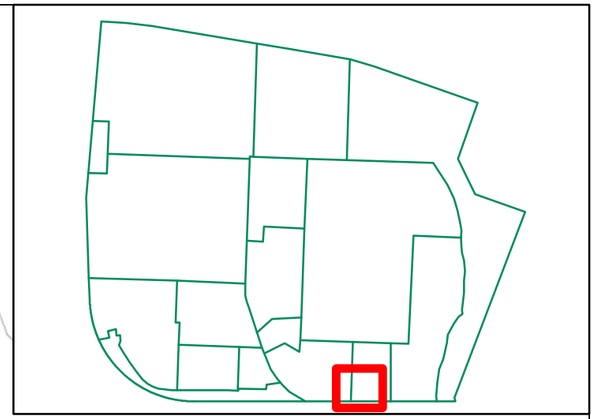
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-A05 GROUP: A CONSTITUENT OF CONCERN: CHROMIUM

JUNE 2018

FIGURE J-4

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D04_IGW_EX_A05_CR_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:25:05 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

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SCALE IN FEET

HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

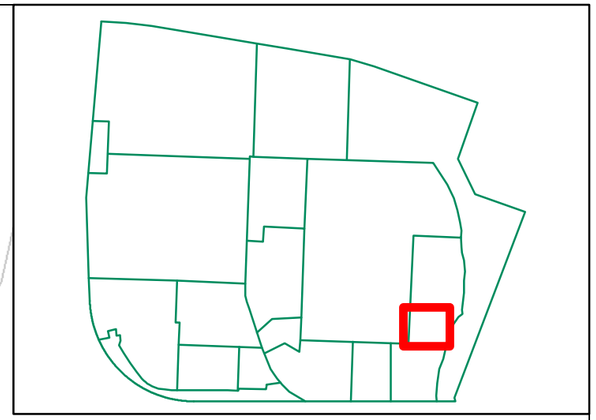
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-A06
GROUP: A
CONSTITUENT OF CONCERN: LEAD

JUNE 2018

FIGURE J-5

GIS FILE PATH: C:\Users\dquaifis\Desktop\GIS\Maps\170613_837_0D05_IGW_EX_A06_PB_SURF.mxd — USER: dquaifis — LAST SAVED: 5/24/2018 12:38:59 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

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N

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SCALE IN FEET

HALEY ALDRICH

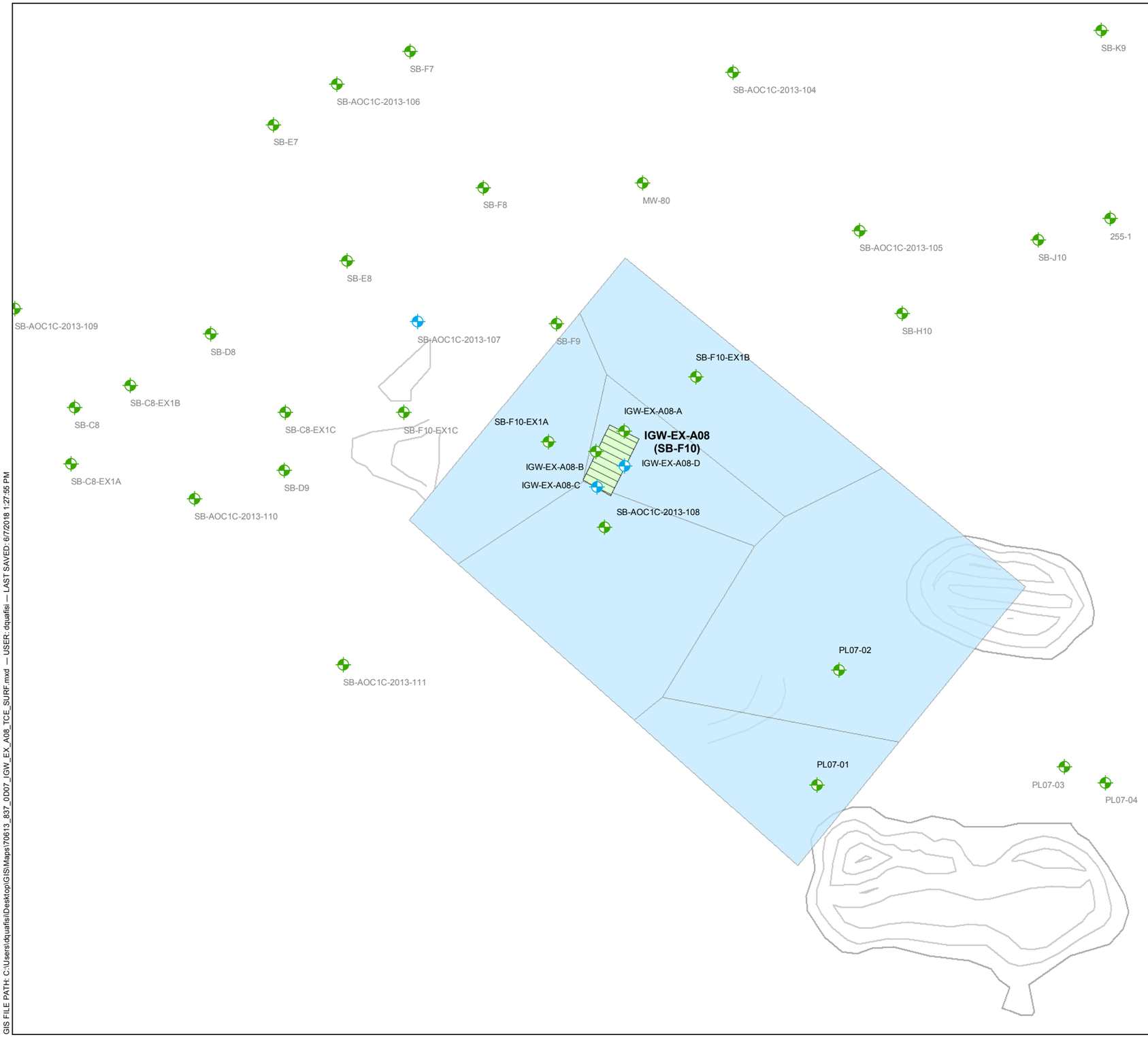
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EWING, NEW JERSEY

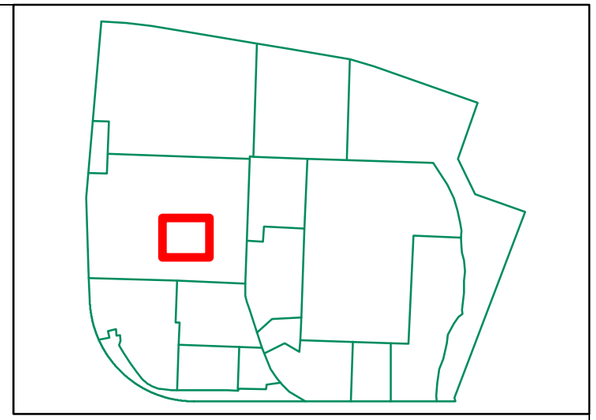
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-A07 GROUP: A CONSTITUENT OF CONCERN: CHROMIUM

JUNE 2018

FIGURE J-6

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D06_IGW_EX_A07_CR_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:27:09 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
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HALEY ALDRICH

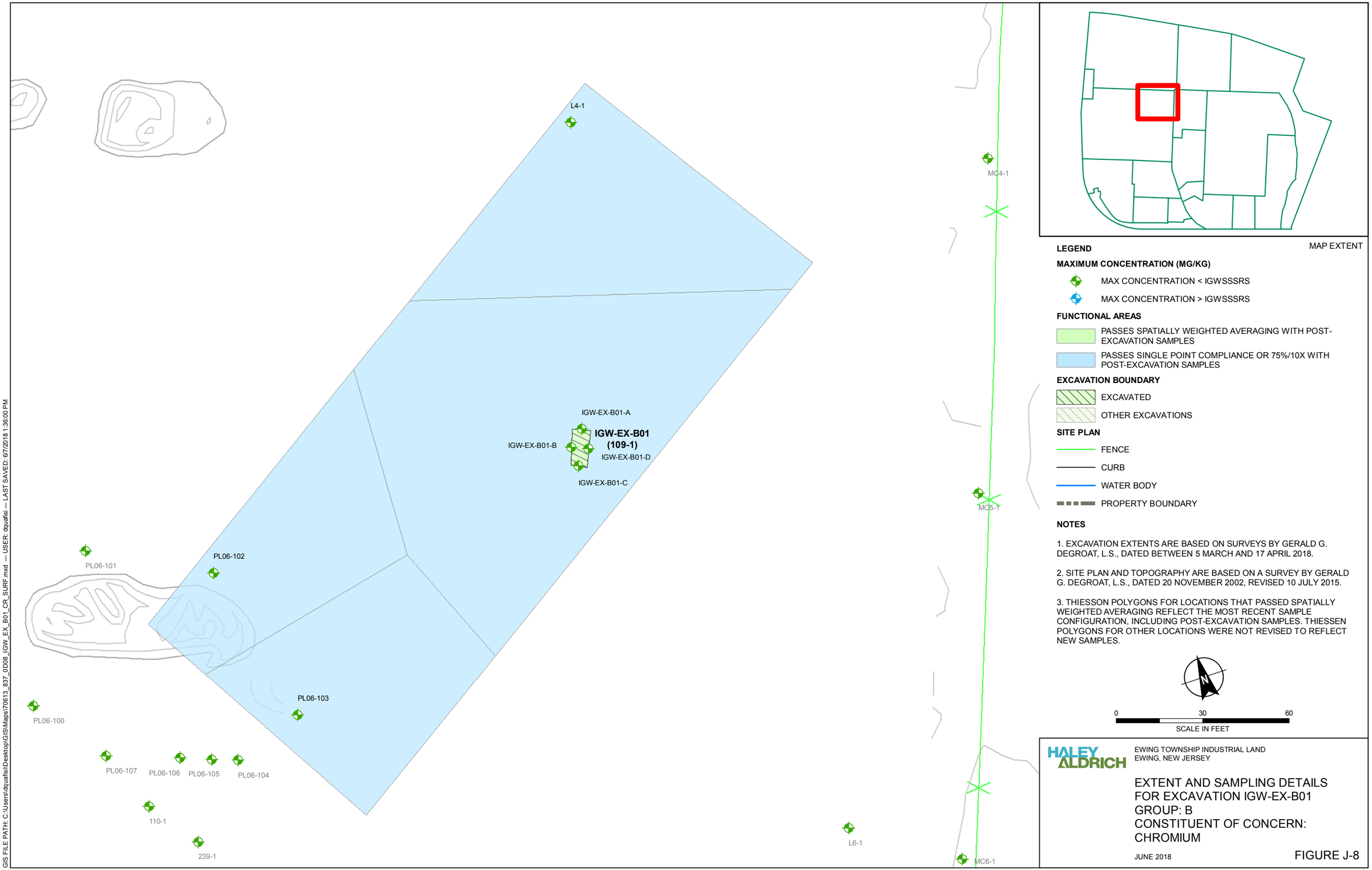
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-A08 GROUP: A CONSTITUENT OF CONCERN: TCE

JUNE 2018

FIGURE J-7

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D07_IGW_EX_A08_TCE_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:27:55 PM



MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
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- WATER BODY
- PROPERTY BOUNDARY

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N

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SCALE IN FEET

HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

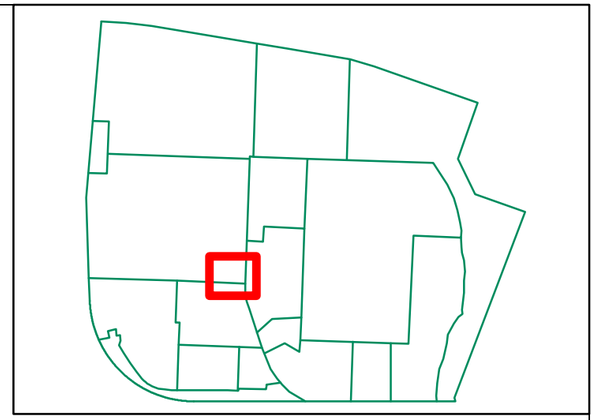
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B01 GROUP: B CONSTITUENT OF CONCERN: CHROMIUM

JUNE 2018

FIGURE J-8

GIS FILE PATH: C:\Users\dquafis\Desktop\GIS\Maps\170613_837_OD08_IGW_EX_B01_CR_SURF.mxd — USER: dquafis — LAST SAVED: 6/7/2018 1:36:00 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

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- PROPERTY BOUNDARY

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N

0 20 40

SCALE IN FEET

HALEY ALDRICH

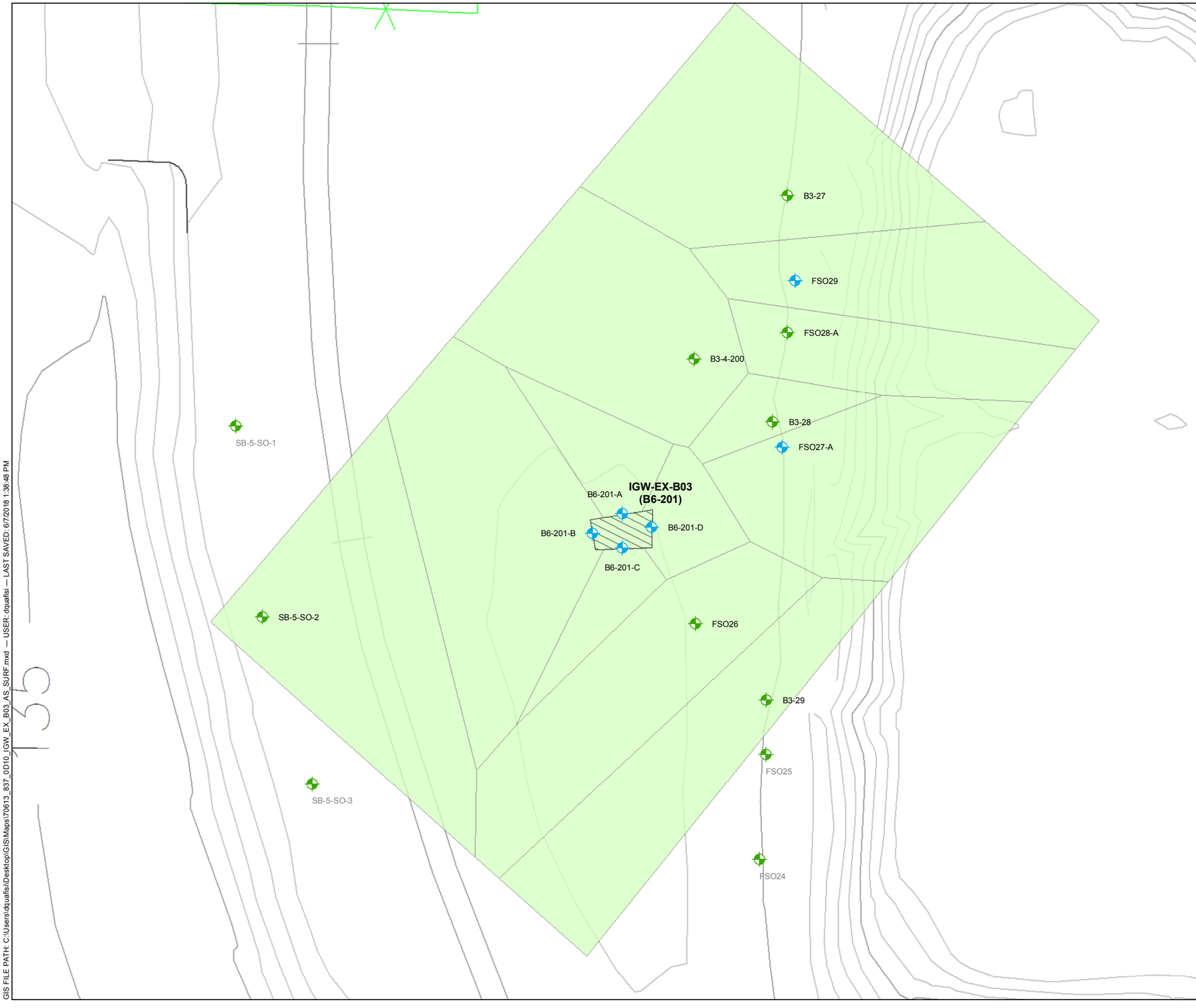
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EWING, NEW JERSEY

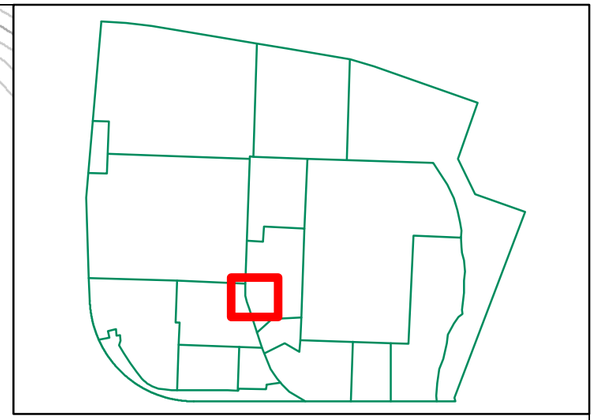
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B02 GROUP: B CONSTITUENT OF CONCERN: NICKEL

JUNE 2018

FIGURE J-9

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D09_IGW_EX_B02_NI_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:36:51 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

1. EXCAVATION EXTENTS ARE BASED ON SURVEYS BY GERALD G. DEGROAT, L.S., DATED BETWEEN 5 MARCH AND 17 APRIL 2018.

2. SITE PLAN AND TOPOGRAPHY ARE BASED ON A SURVEY BY GERALD G. DEGROAT, L.S., DATED 20 NOVEMBER 2002, REVISED 10 JULY 2015.

3. THIESSON POLYGONS FOR LOCATIONS THAT PASSED SPATIALLY WEIGHTED AVERAGING REFLECT THE MOST RECENT SAMPLE CONFIGURATION, INCLUDING POST-EXCAVATION SAMPLES. THIESSEN POLYGONS FOR OTHER LOCATIONS WERE NOT REVISED TO REFLECT NEW SAMPLES.

N

0 20 40

SCALE IN FEET

HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

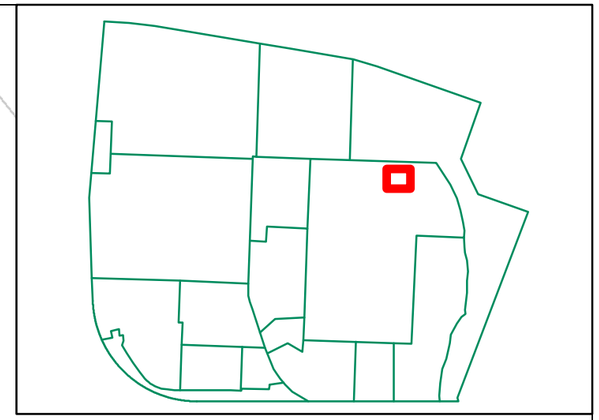
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B03
GROUP: B*
CONSTITUENT OF CONCERN:
ARSENIC

JUNE 2018

FIGURE J-10

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\70613_837_0D10_IGW_EX_B03_AS_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:38:48 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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SCALE IN FEET

HALEY ALDRICH

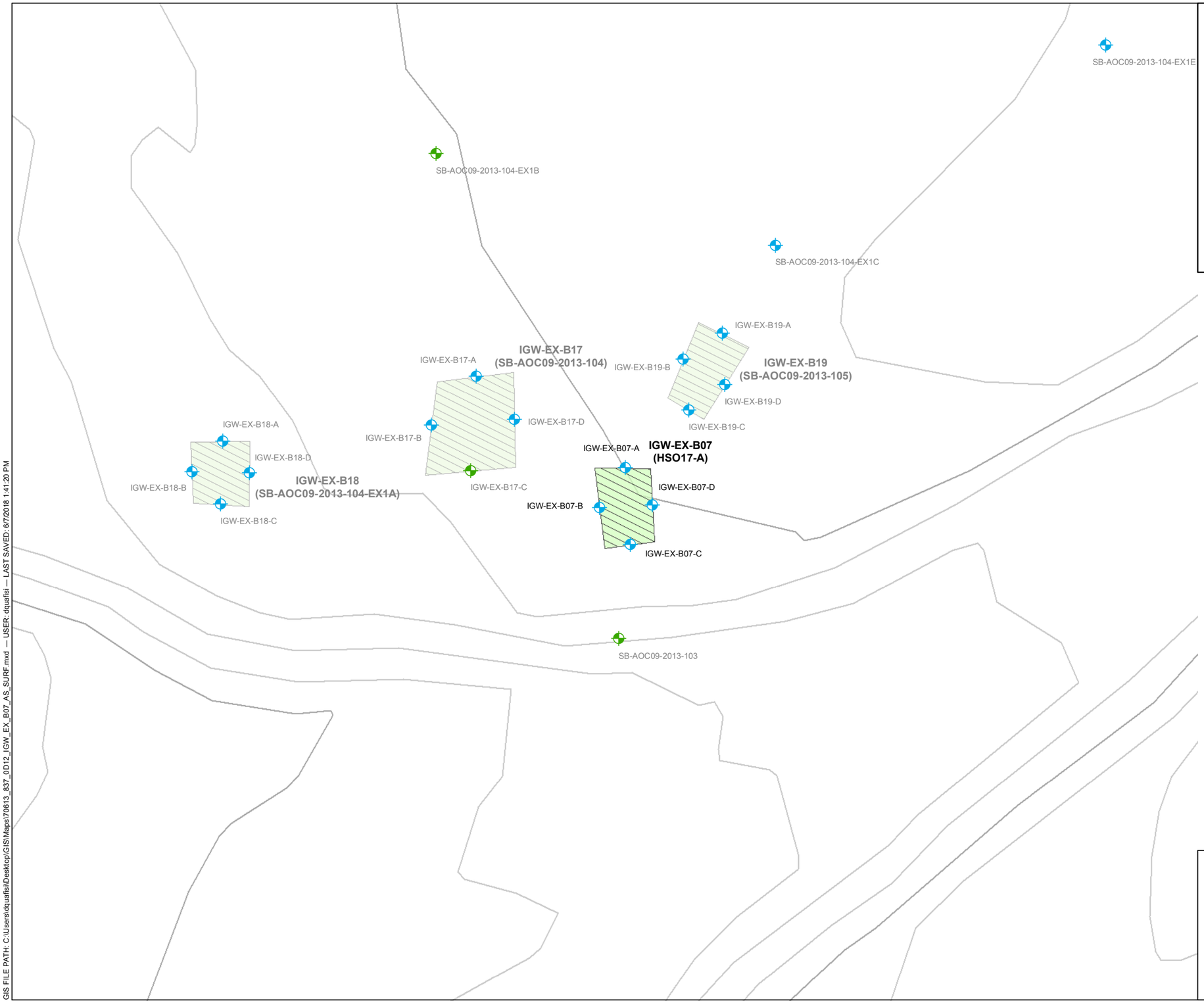
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EWING, NEW JERSEY

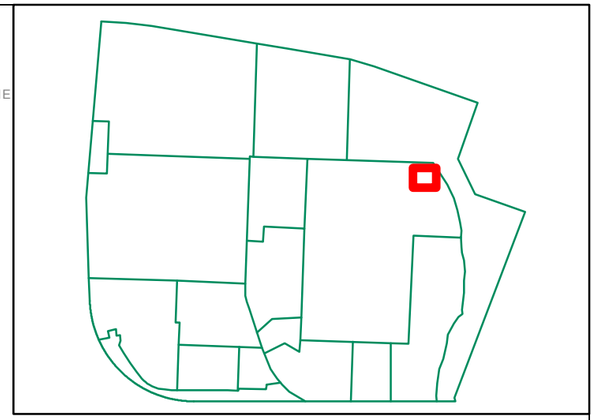
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B04-B05-B06 GROUP: B CONSTITUENT OF CONCERN: NATURALLY OCCURRING ARSENIC

JUNE 2018

FIGURE J-11

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D11_IGW_EX_B04_B05_B06_AS_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:40:24 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- OTHER EXCAVATIONS
- EXCAVATED AREA

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

1. EXCAVATION EXTENTS ARE BASED ON SURVEYS BY GERALD G. DEGROAT, L.S., DATED BETWEEN 5 MARCH AND 17 APRIL 2018.

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SCALE IN FEET

HALEY ALDRICH

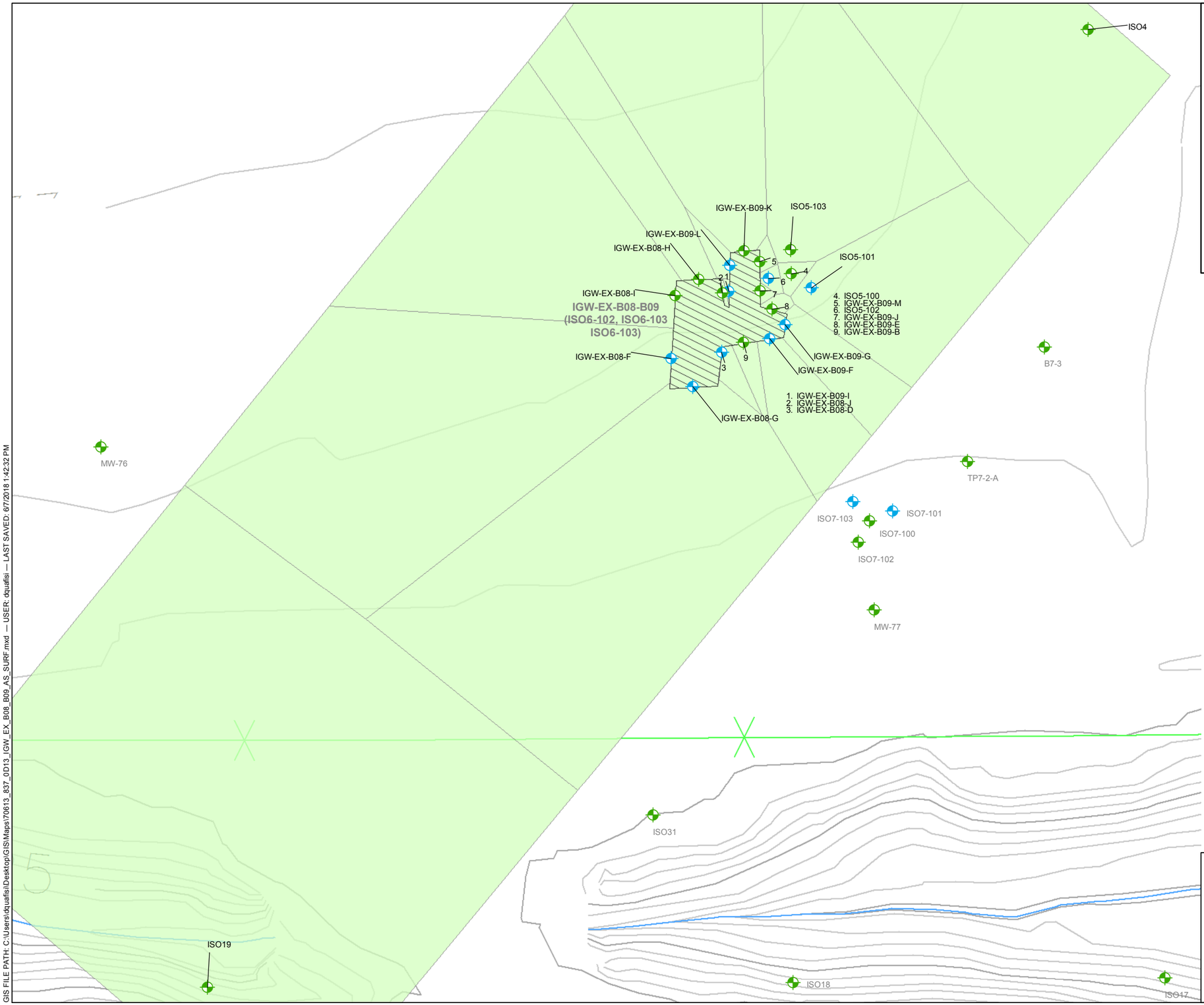
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EWING, NEW JERSEY

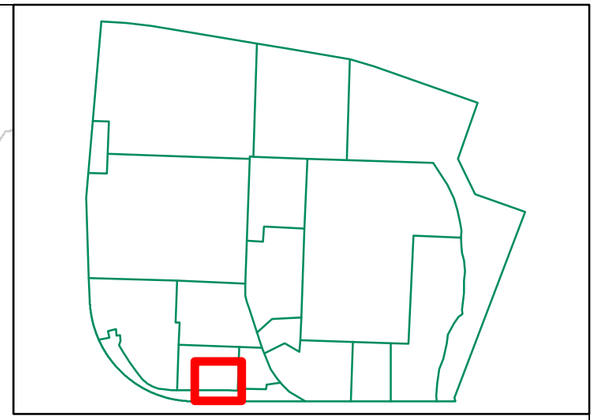
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B07 GROUP: B CONSTITUENT OF CONCERN: NATURALLY OCCURRING ARSENIC

JUNE 2018

FIGURE J-12

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D12_IGW_EX_B07_AS_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:41:20 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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SCALE IN FEET

HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

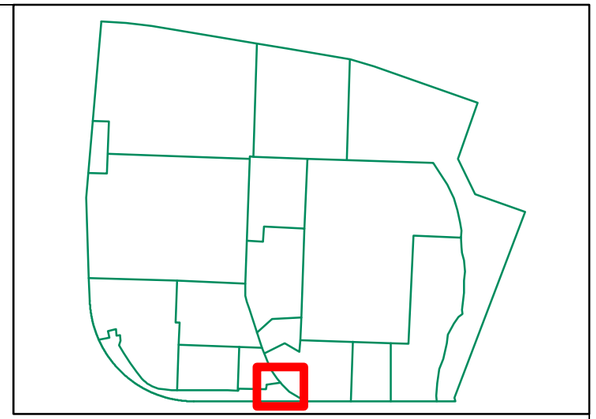
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B08-B09 GROUP: B* CONSTITUENT OF CONCERN: ARSENIC

JUNE 2018

FIGURE J-13

GIS FILE PATH: C:\Users\dquafisi\Desktop\GISMaps\170613_837_0D13_IGW_EX_B08_B09_AS_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:42:32 PM

CE-1-102-EX1A
MOA-B-S7
B7-6
MOA-B-S13
MOA-B-S23
MOA-B-S22
MOA-B-BS3-A
SB-7-SO-4
MOA-B-S12
MOA-B-S20
MOA-B-S11
IGW-EX-A05
(SB-7-SO-7)
SB-7-SO-7
IGW-EX-B10-A
IGW-EX-B10-D
IGW-EX-B10-B
IGW-EX-B10
(MW-22)
IGW-EX-B10-C
B7-2-EX1A
B7-2
B7-2-EX1C
ISO37
ISO35
ISO36
ISO16
ISO38
ISO40



MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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N

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SCALE IN FEET

HALEY ALDRICH

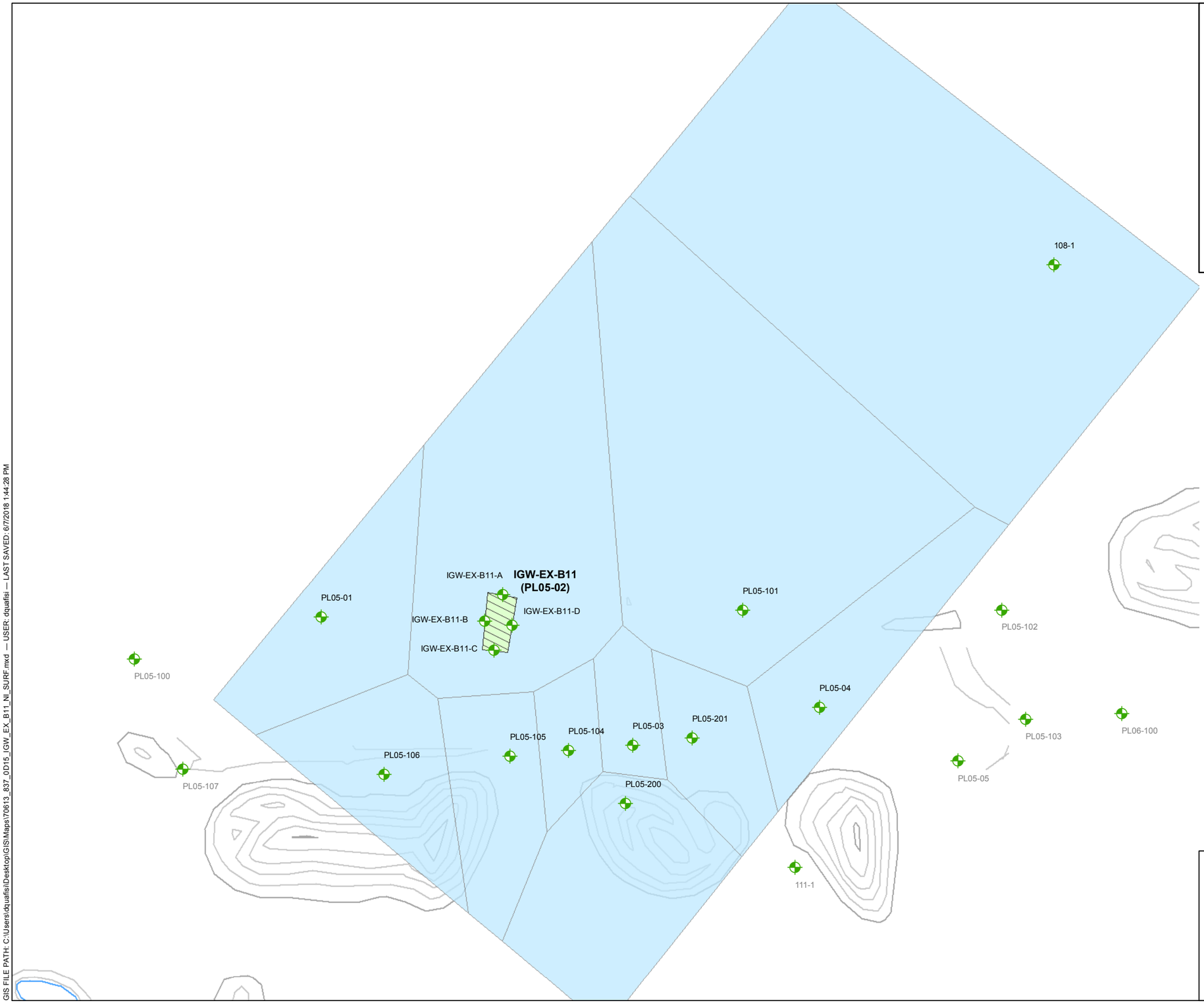
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

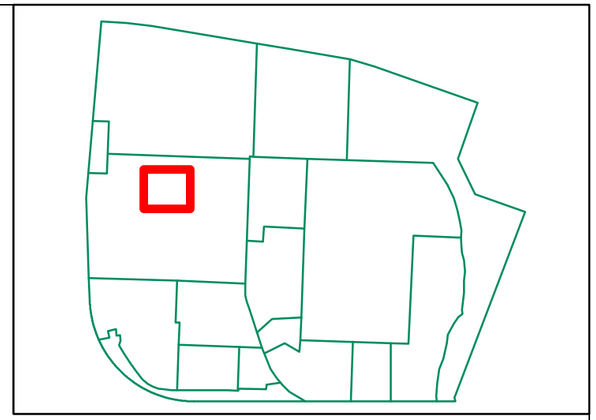
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B10 GROUP: B CONSTITUENT OF CONCERN: ARSENIC

JUNE 2018

FIGURE J-14

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D14_IGW_EX_B10_AS_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:43:27 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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N

0 20 40

SCALE IN FEET

HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

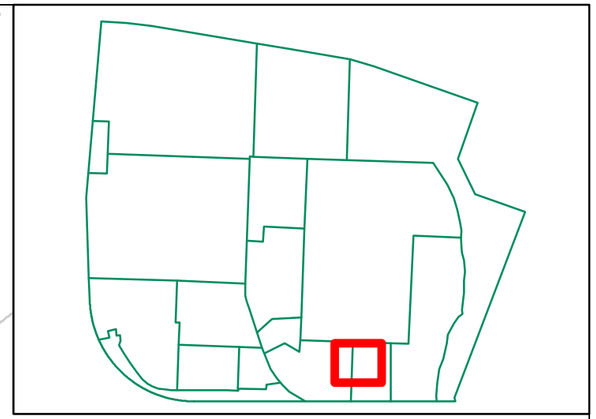
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B11 GROUP: B CONSTITUENT OF CONCERN: NICKEL

JUNE 2018

FIGURE J-15

GIS FILE PATH: C:\Users\dquaflisi\Desktop\GIS\Maps\170613_837_0D15_IGW_EX_B11_NI_SURF.mxd — USER: dquaflisi — LAST SAVED: 6/7/2018 1:44:28 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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SCALE IN FEET

HALEY ALDRICH

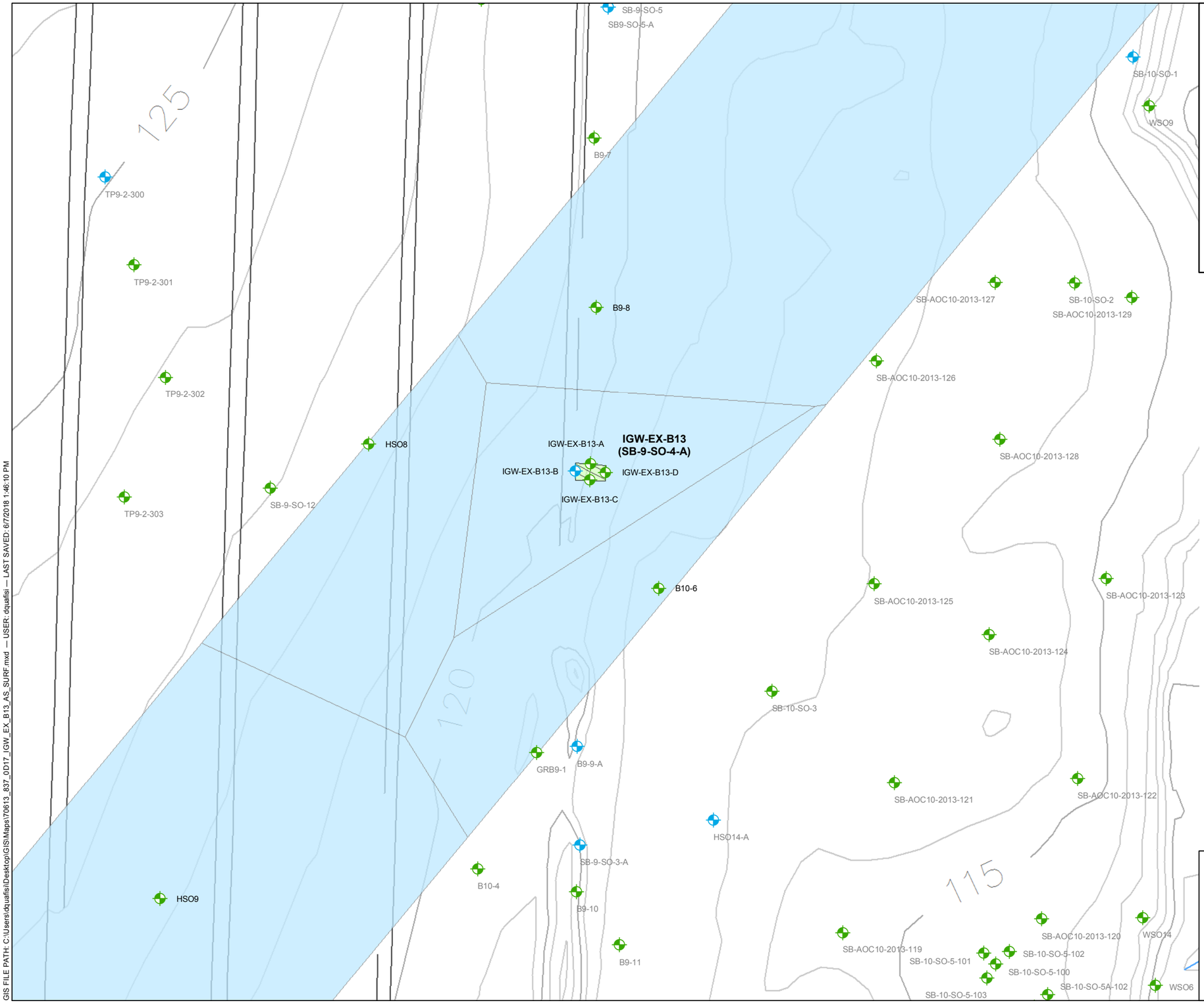
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B12 GROUP: B* CONSTITUENT OF CONCERN: LEAD

JUNE 2018

FIGURE J-16

GIS FILE PATH: C:\Users\dquafisi\Desktop\GISMaps\170613_837_0D16_IGW_EX_B12_PB_SUB.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:45:20 PM



MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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0 30 60

SCALE IN FEET

HALEY ALDRICH

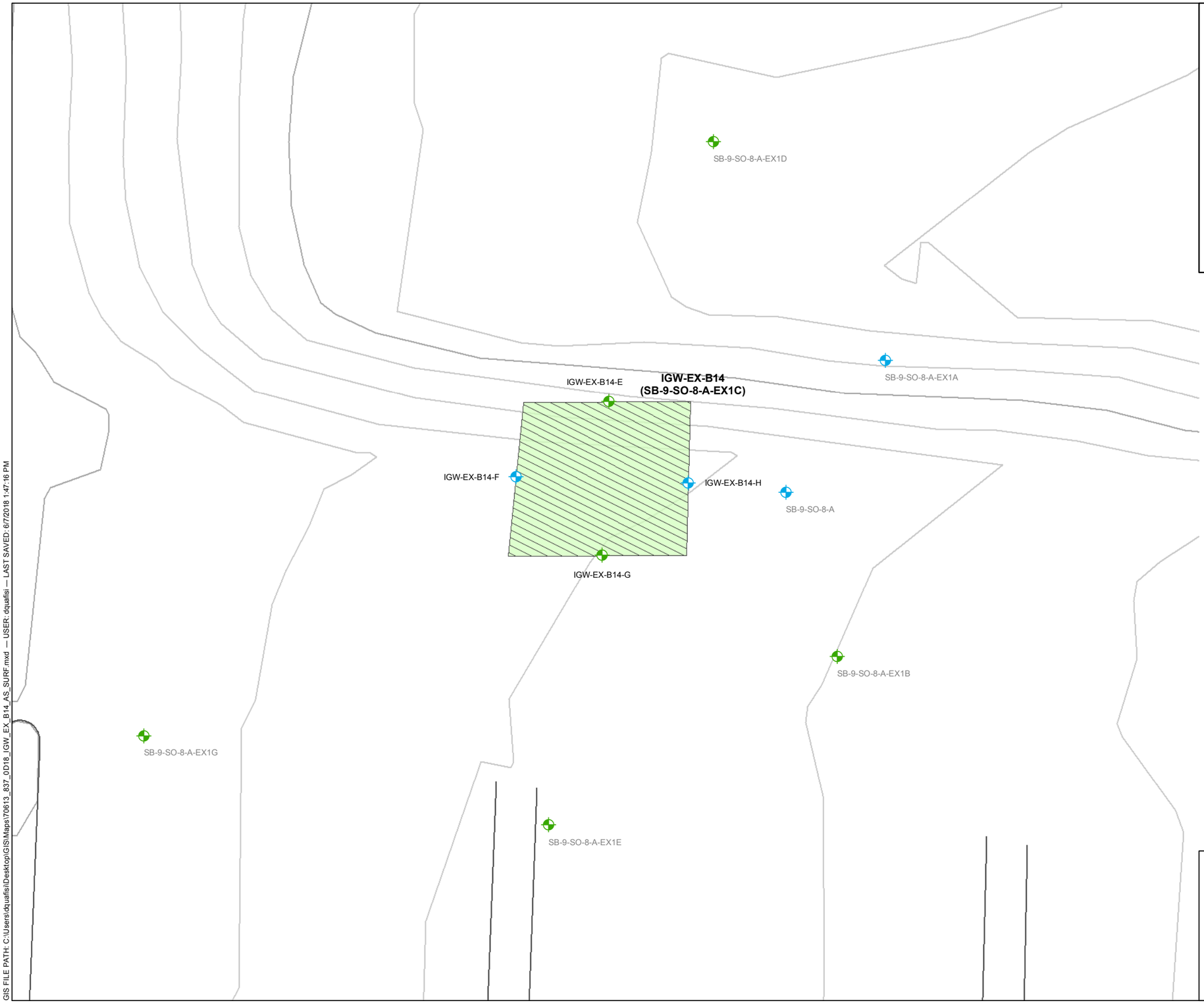
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EWING, NEW JERSEY

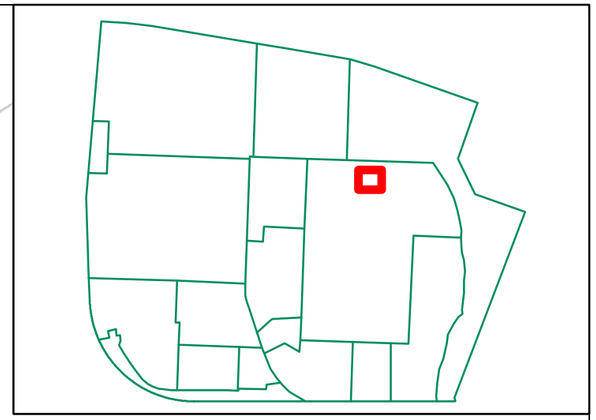
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B13 GROUP: B* CONSTITUENT OF CONCERN: ARSENIC

JUNE 2018

FIGURE J-17

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\706I3_837_0D17_IGW_EX_B13_AS_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:46:10 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- OTHER EXCAVATIONS
- EXCAVATED AREA

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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SCALE IN FEET

HALEY ALDRICH

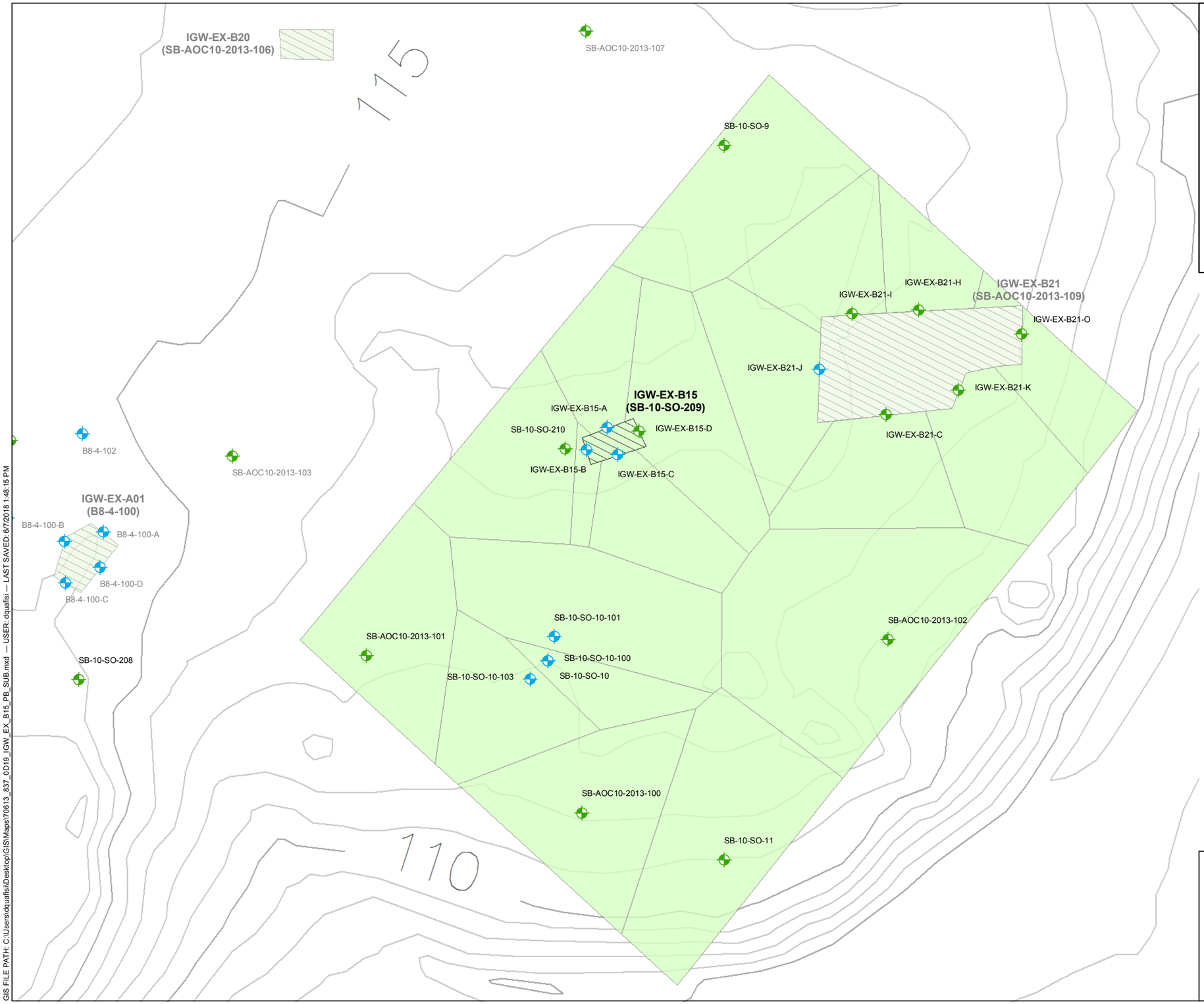
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EWING, NEW JERSEY

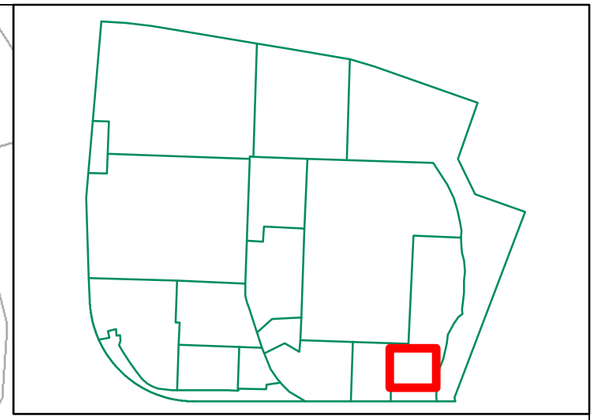
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B14 GROUP: B CONSTITUENT OF CONCERN: NATURALLY OCCURRING ARSENIC

JUNE 2018

FIGURE J-18

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D18_IGW_EX_B14_AS_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:47:16 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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SCALE IN FEET

HALEY ALDRICH

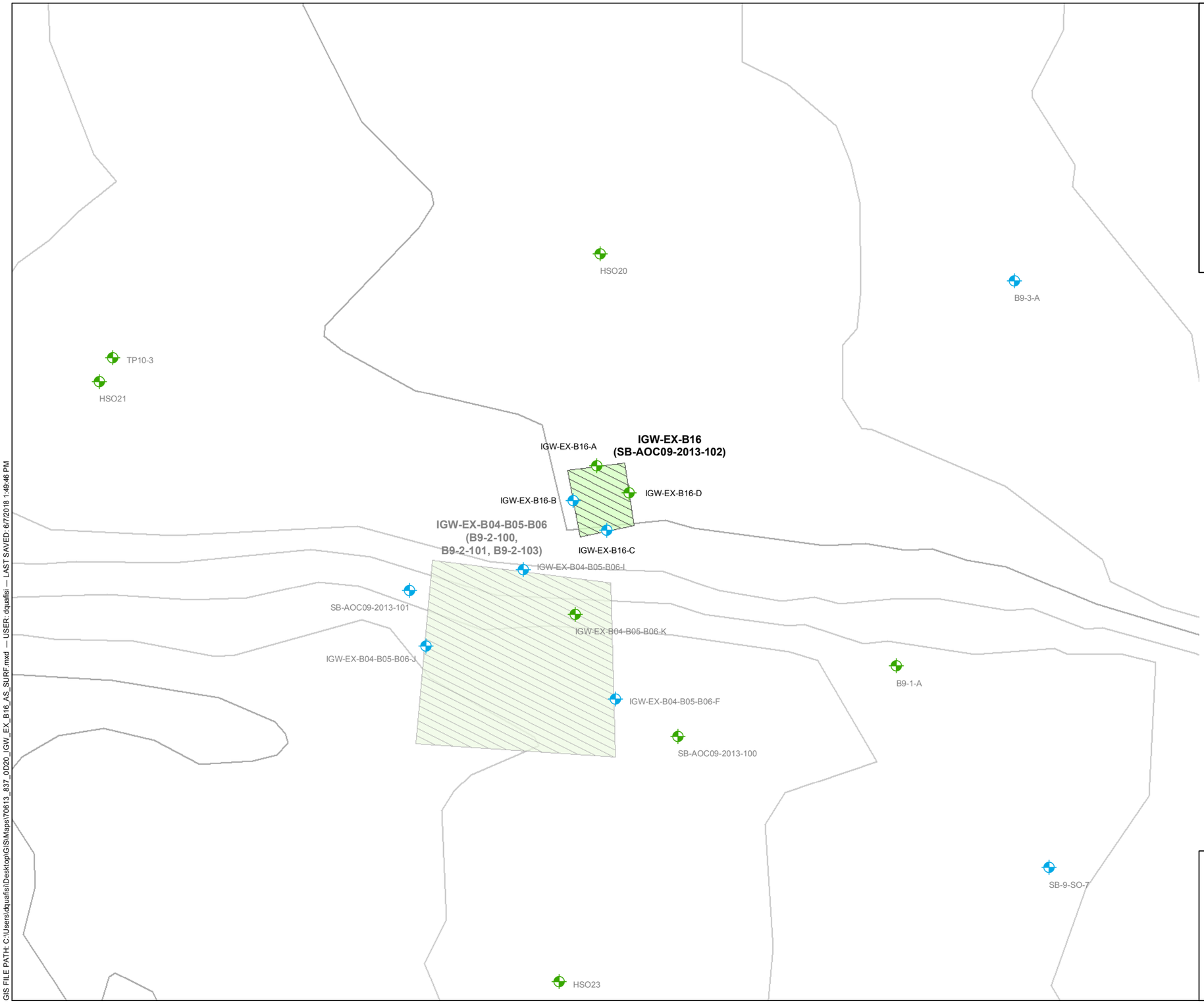
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

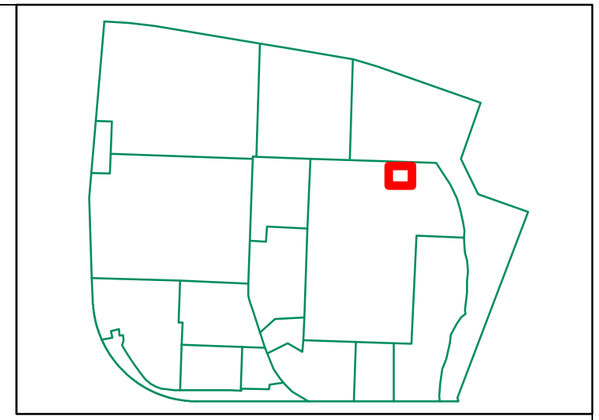
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B15 GROUP: B CONSTITUENT OF CONCERN: LEAD

JUNE 2018

FIGURE J-19

GIS FILE PATH: C:\Users\dquafis\Desktop\GIS\Maps\70613_837_0D19_IGW_EX_B15_PB_SUB.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:48:15 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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0 10 20

SCALE IN FEET

HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

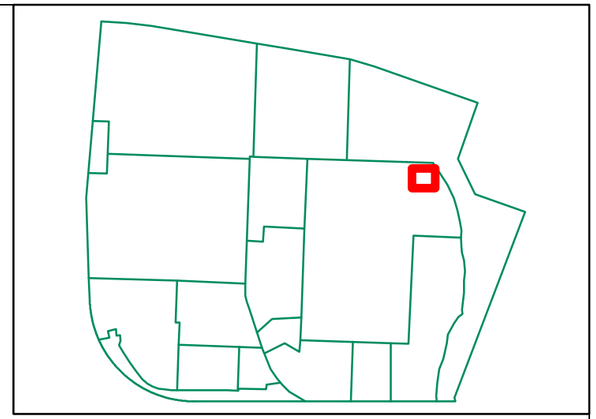
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B16
GROUP: B
CONSTITUENT OF CONCERN:
NATURALLY OCCURRING ARSENIC

JUNE 2018

FIGURE J-20

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D20_IGW_EX_B16_AS_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 1:49:46 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

1. EXCAVATION EXTENTS ARE BASED ON SURVEYS BY GERALD G. DEGROAT, L.S., DATED BETWEEN 5 MARCH AND 17 APRIL 2018.

2. SITE PLAN AND TOPOGRAPHY ARE BASED ON A SURVEY BY GERALD G. DEGROAT, L.S., DATED 20 NOVEMBER 2002, REVISED 10 JULY 2015.

3. THIESSON POLYGONS FOR LOCATIONS THAT PASSED SPATIALLY WEIGHTED AVERAGING REFLECT THE MOST RECENT SAMPLE CONFIGURATION, INCLUDING POST-EXCAVATION SAMPLES. THIESSEN POLYGONS FOR OTHER LOCATIONS WERE NOT REVISED TO REFLECT NEW SAMPLES.

N

0 10 20

SCALE IN FEET

HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

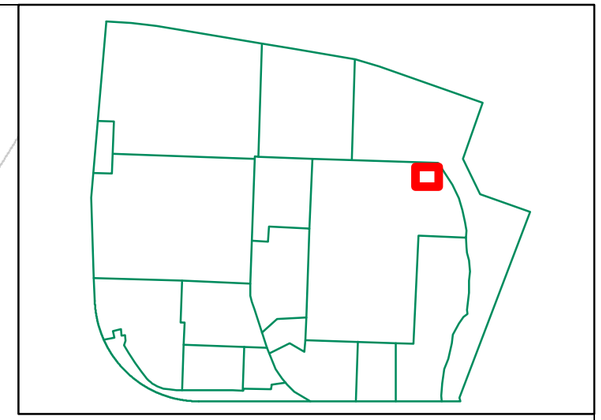
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B17 GROUP: B CONSTITUENT OF CONCERN: NATURALLY OCCURRING ARSENIC

JUNE 2018

FIGURE J-20

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D21_IGW_EX_B17_AS_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 3:23:24 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- OTHER EXCAVATION
- EXCAVATED AREA

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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0 10 20

SCALE IN FEET

HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B18 GROUP: B CONSTITUENT OF CONCERN: NATURALLY OCCURRING ARSENIC

JUNE 2018

FIGURE J-22

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D22_IGW_EX_B18_AS_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 4:30:57 PM

SB-AOC09-2013-104-EX1D

SB-AOC09-2013-104-EX1E

SB-AOC09-2013-104-EX1B

SB-AOC09-2013-104-EX1C

IGW-EX-B17
(SB-AOC09-2013-104)

IGW-EX-B17-A

IGW-EX-B17-B

IGW-EX-B17-C

IGW-EX-B17-D

IGW-EX-B19-A

IGW-EX-B19-B

IGW-EX-B19-C

IGW-EX-B19-D

IGW-EX-B07
(HSO17-A)

IGW-EX-B07-A

IGW-EX-B07-B

IGW-EX-B07-C

IGW-EX-B07-D

IGW-EX-B18
(SB-AOC09-2013-104-EX1A)

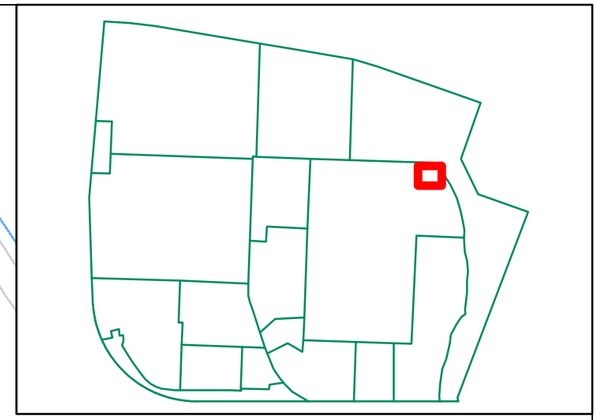
IGW-EX-B18-A

IGW-EX-B18-B

IGW-EX-B18-C

IGW-EX-B18-D

SB-AOC09-2013-103



MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

1. EXCAVATION EXTENTS ARE BASED ON SURVEYS BY GERALD G. DEGROAT, L.S., DATED BETWEEN 5 MARCH AND 17 APRIL 2018.

2. SITE PLAN AND TOPOGRAPHY ARE BASED ON A SURVEY BY GERALD G. DEGROAT, L.S., DATED 20 NOVEMBER 2002, REVISED 10 JULY 2015.

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N

0 10 20

SCALE IN FEET

HALEY ALDRICH

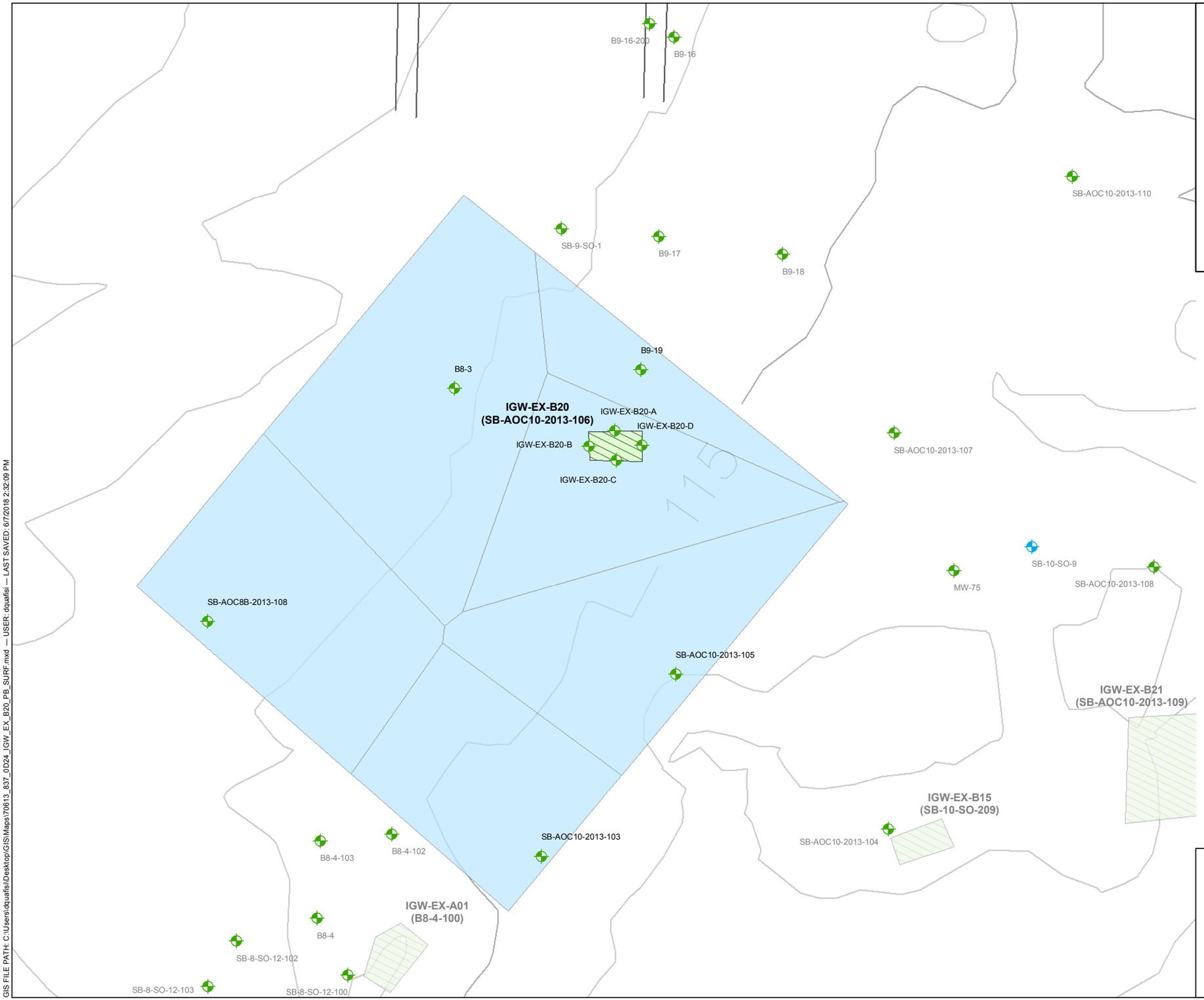
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

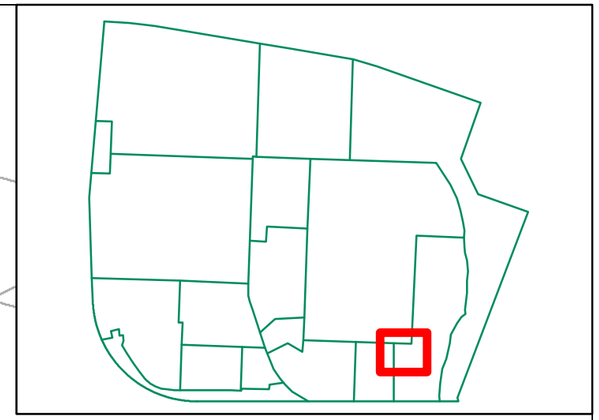
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B19 GROUP: B CONSTITUENT OF CONCERN: NATURALLY OCCURRING ARSENIC

JUNE 2018

FIGURE J-23

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D23_IGW_EX_B19_AS_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 2:36:56 PM





MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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N

0 20 40

SCALE IN FEET

HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B20
GROUP: B*
CONSTITUENT OF CONCERN: LEAD

JUNE 2018

FIGURE J-24

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D24_IGW_EX_B20_PB_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 2:32:09 PM

IGW-EX-B20
(SB-AOC10-2013-106)

SB-AOC10-2013-107

715

SB-10-SO-9

IGW-EX-B21-I

IGW-EX-B21-H

IGW-EX-B21-O

IGW-EX-B21-J

IGW-EX-B21-K

IGW-EX-B21-C

IGW-EX-B15
(SB-10-SO-209)

IGW-EX-B15-A

SB-10-SO-210

IGW-EX-B15-D

IGW-EX-B15-B

IGW-EX-B15-C

SB-10-SO-10-101

SB-AOC10-2013-101

SB-10-SO-10-100

SB-10-SO-10

SB-10-SO-10-103

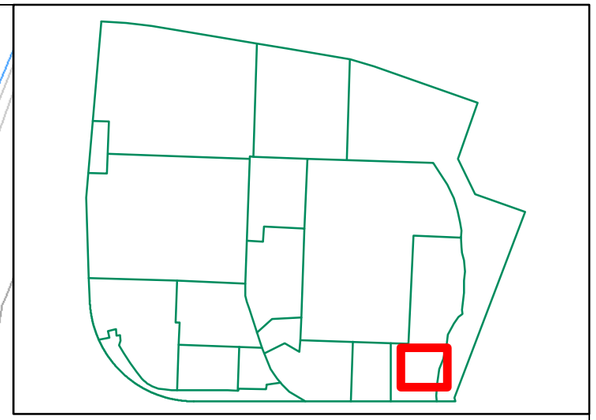
SB-AOC10-2013-102

SB-AOC10-2013-100

SB-10-SO-11

110

WSO4



MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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N

0 20 40

SCALE IN FEET

HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

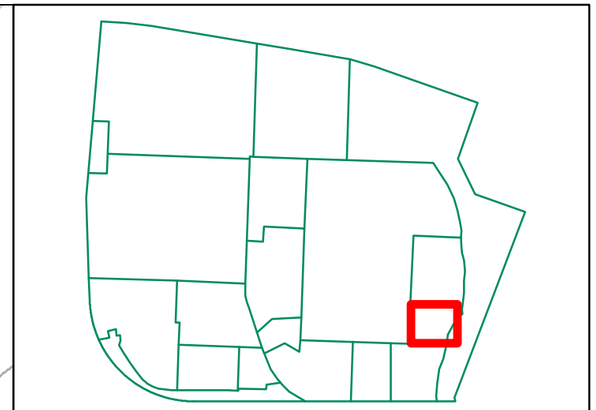
EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B21 GROUP: B CONSTITUENT OF CONCERN: LEAD

JUNE 2018

FIGURE J-25

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D25_IGW_EX_B21_PB_SUB.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 2:40:29 PM

HSO13
SB-AOC10-2013-117
SB-AOC10-2013-118
IGW-EX-B22-OR-06
IGW-EX-B22-OR-05
IGW-EX-B22-OR-04
IGW-EX-B22-OR-07
IGW-EX-B22-OR-14
IGW-EX-B22-OR-13
B9-15
SB-AOC10-2013-116
IGW-EX-B22-IR-06
IGW-EX-B22-OR-09
IGW-EX-A07
(SB-10-SO-7-103)
SB-AOC10-2013-114
IGW-EX-B22-OR-12
SB-10-SO-7-100
SB-10-SO-7-102
SB-10-SO-7-101
HSO12
SB-AOC10-2013-113
IGW-EX-B22-IR-01
IGW-EX-B22-OR-11
SB-AOC10-2013-112
IGW-EX-B22-OR-01
IGW-EX-B22-OR-08
WSO13
SB-10-SO-8
SB-AOC10-2013-111
SB-AOC10-2013-110
105



MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED AREA
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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N

0 20 40

SCALE IN FEET

HALEY ALDRICH

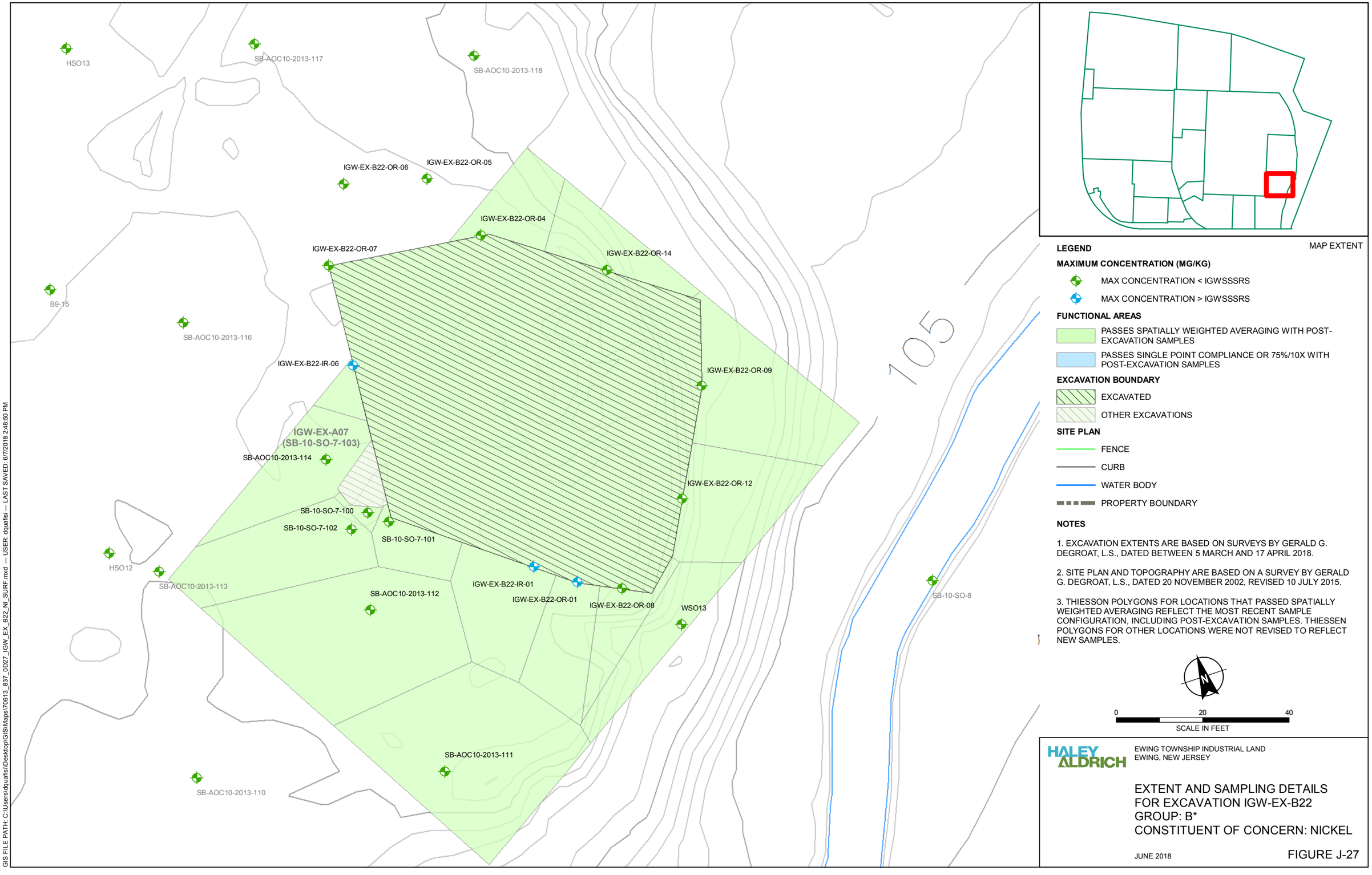
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B22 GROUP: B* CONSTITUENT OF CONCERN: CHROMIUM

JUNE 2018

FIGURE J-26

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D26_IGW_EX_B22_CR_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 2:44:34 PM



MAP EXTENT

LEGEND

MAXIMUM CONCENTRATION (MG/KG)

- MAX CONCENTRATION < IGWSSSRS
- MAX CONCENTRATION > IGWSSSRS

FUNCTIONAL AREAS

- PASSES SPATIALLY WEIGHTED AVERAGING WITH POST-EXCAVATION SAMPLES
- PASSES SINGLE POINT COMPLIANCE OR 75%/10X WITH POST-EXCAVATION SAMPLES

EXCAVATION BOUNDARY

- EXCAVATED
- OTHER EXCAVATIONS

SITE PLAN

- FENCE
- CURB
- WATER BODY
- PROPERTY BOUNDARY

NOTES

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N

0 20 40

SCALE IN FEET

HALEY ALDRICH

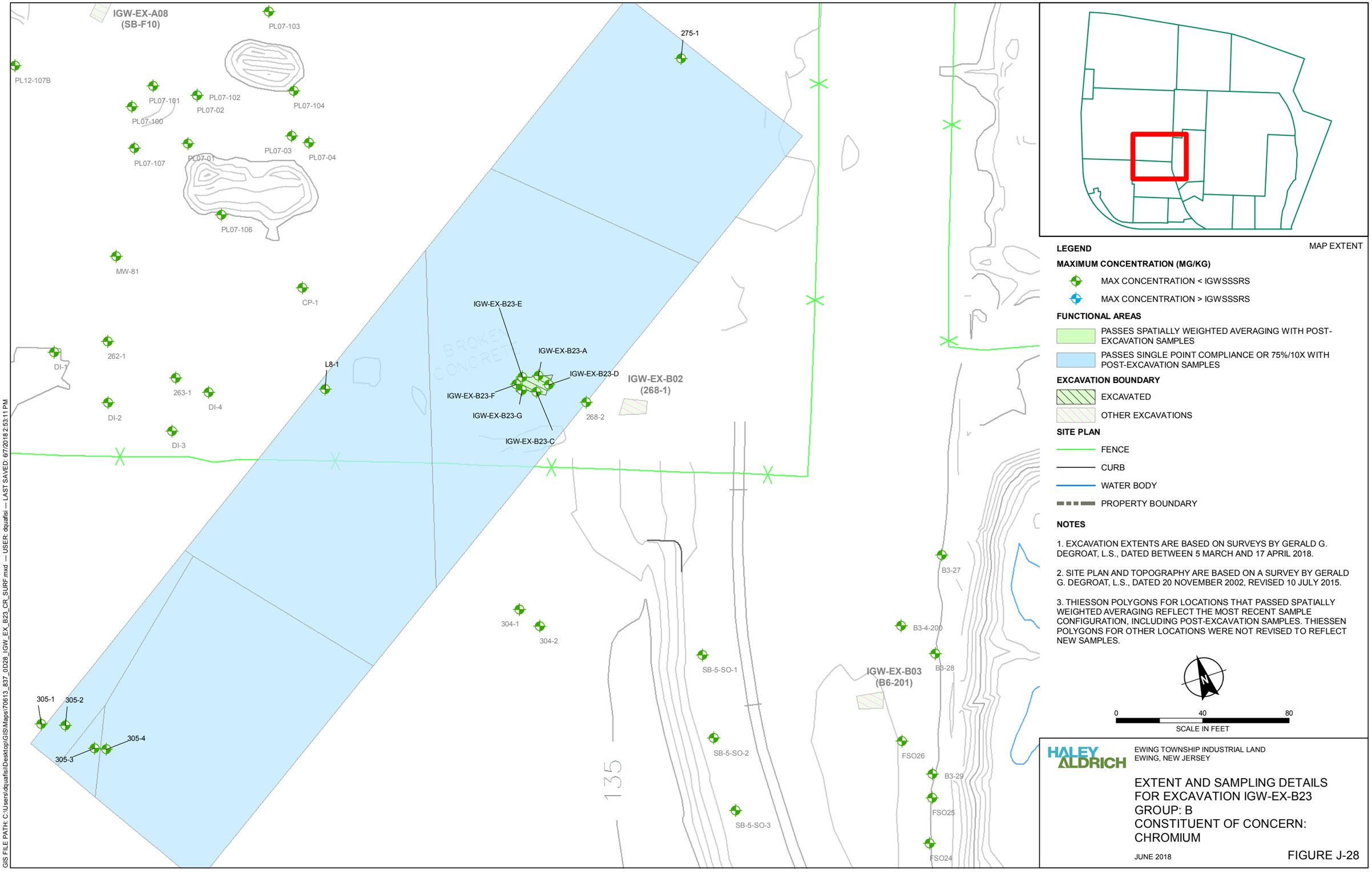
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B22 GROUP: B* CONSTITUENT OF CONCERN: NICKEL

JUNE 2018

FIGURE J-27

GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D27_IGW_EX_B22_NI_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 2:48:50 PM



GIS FILE PATH: C:\Users\dquafisi\Desktop\GIS\Maps\170613_837_0D28_IGW_EX_B23_CR_SURF.mxd — USER: dquafisi — LAST SAVED: 6/7/2018 2:53:11 PM

HALEY ALDRICH

EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXTENT AND SAMPLING DETAILS FOR EXCAVATION IGW-EX-B23 GROUP: B CONSTITUENT OF CONCERN: CHROMIUM

JUNE 2018

FIGURE J-28

APPENDIX K

Laboratory Reports

ANALYTICAL REPORT

Lab Number:	L1806322
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	02/23/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1806322-01	9179-20180222-1522	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 15:22	02/22/18
L1806322-02	9179-20180222-1525	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 15:25	02/22/18
L1806322-03	9179-20180222-1527	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 15:27	02/22/18
L1806322-04	9179-20180222-1530	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 15:30	02/22/18
L1806322-05	9179-20180222-1535	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 15:35	02/22/18
L1806322-06	9179-20180222-1537	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 15:37	02/22/18
L1806322-07	9179-20180222-1540	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 15:40	02/22/18
L1806322-08	9179-20180222-1545	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 15:45	02/22/18
L1806322-09	9179-20180222-1410	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 14:10	02/22/18
L1806322-10	9179-20180222-1440	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 14:40	02/22/18
L1806322-11	9179-20180222-1450	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 14:50	02/22/18
L1806322-12	9179-20180222-1500	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 15:00	02/22/18
L1806322-13	9179-20180222-1510	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 15:10	02/22/18
L1806322-14	9179-20180222-1505	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 15:05	02/22/18
L1806322-15	9179-20180222-1520	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 15:20	02/22/18
L1806322-16	9179-20180222-1515	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 15:15	02/22/18
L1806322-17	9179-20180222-DUP	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 00:00	02/22/18
L1806322-18	9179-20180222-0950	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 09:50	02/22/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1806322-19	9179-20180222-1140	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 11:40	02/22/18
L1806322-20	9179-20180222-1005	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 10:05	02/22/18
L1806322-21	9179-20180222-DUP	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 00:00	02/22/18
L1806322-22	9179-20180222-1020	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 10:20	02/22/18
L1806322-23	9179-20180222-1130	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 11:30	02/22/18
L1806322-24	9179-20180222-1040	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 10:40	02/22/18
L1806322-25	9179-20180222-1055	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 10:55	02/22/18
L1806322-26	9179-20180222-1120	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/22/18 11:20	02/22/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

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Case Narrative (continued)

Report Submission
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives
Report Submission
In reference to question 5a:
Reporting limits were not specified.

Sample Receipt
L1806322-01 (9179-20180222-1522): The collection date and time on the chain of custody was 22-FEB-18 15:22; however, the collection date/time on the container label was 22-FEB-18 15:32. At the client's request, the collection date/time is reported as 22-FEB-18 15:22.

Volatile Organics
L1806322-18 (9179-20180222-0950): The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.
L1806322-19 (9179-20180222-1140), -20 (9179-20180222-1005), -21 (9179-20180222-DUP), -22 (9179-20180222-1020), -23 (9179-20180222-1130), -24 (9179-20180222-1040), -25 (9179-20180222-1055) and -26 (9179-20180222-1120): The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.
In reference to question 4:
WG1091884-6/-7: One or more compounds failed to meet the DKQP recovery and/or RPD limits. Please refer to the QC section of the report for specific details.

Total Metals
In reference to question 4:
The WG1091749-3 MS recovery for lead (279%), performed on L1806322-01 (9179-20180222-1522), does

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Case Narrative (continued)

not apply because the sample concentration is greater than four times the spike amount added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Amita Naik

Title: Technical Director/Representative Date: 02/23/18

ORGANICS

VOLATILES

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-18
Client ID: 9179-20180222-0950
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/23/18 10:10
Analyst: MKS
Percent Solids: 83%

Date Collected: 02/22/18 09:50
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		mg/kg	0.060	0.018	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	97		70-130

Project Name: RACER **Lab Number:** L1806322

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SAMPLE RESULTS

Lab ID: L1806322-19 D
Client ID: 9179-20180222-1140
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/23/18 13:12
Analyst: NLK
Percent Solids: 71%

Date Collected: 02/22/18 11:40
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		mg/kg	0.40	0.12	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	97		70-130

Project Name: RACER **Lab Number:** L1806322

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SAMPLE RESULTS

Lab ID: L1806322-20 D
Client ID: 9179-20180222-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/23/18 10:36
Analyst: MKS
Percent Solids: 88%

Date Collected: 02/22/18 10:05
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		mg/kg	0.22	0.068	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	97		70-130

Project Name: RACER **Lab Number:** L1806322

Project Number: 128598-003 **Report Date:** 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-21 D
Client ID: 9179-20180222-DUP
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/23/18 11:02
Analyst: MKS
Percent Solids: 67%

Date Collected: 02/22/18 00:00
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		mg/kg	0.00097	0.00029	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	97		70-130

Project Name: RACER **Lab Number:** L1806322

Project Number: 128598-003 **Report Date:** 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-22 D
Client ID: 9179-20180222-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/23/18 11:28
Analyst: MKS
Percent Solids: 71%

Date Collected: 02/22/18 10:20
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		mg/kg	6.2	1.9	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	95		70-130

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-23 D
Client ID: 9179-20180222-1130
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/23/18 11:54
Analyst: MKS
Percent Solids: 84%

Date Collected: 02/22/18 11:30
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		mg/kg	1.3	0.40	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	98		70-130

Project Name: RACER **Lab Number:** L1806322

Project Number: 128598-003 **Report Date:** 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-24 D
Client ID: 9179-20180222-1040
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/23/18 12:20
Analyst: MKS
Percent Solids: 67%

Date Collected: 02/22/18 10:40
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		mg/kg	0.95	0.29	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	96		70-130

Project Name: RACER **Lab Number:** L1806322

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SAMPLE RESULTS

Lab ID: L1806322-25 D
Client ID: 9179-20180222-1055
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/23/18 12:46
Analyst: MV
Percent Solids: 68%

Date Collected: 02/22/18 10:55
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		mg/kg	0.51	0.15	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	96		70-130

Project Name: RACER **Lab Number:** L1806322

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SAMPLE RESULTS

Lab ID: L1806322-26 D
Client ID: 9179-20180222-1120
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/23/18 09:18
Analyst: MKS
Percent Solids: 54%

Date Collected: 02/22/18 11:20
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		mg/kg	0.58	0.17	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	94		70-130

Project Name: RACER
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Report Date: 02/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/23/18 08:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 18-26 Batch: WG1091884-5					
Trichloroethene	ND		mg/kg	0.050	0.015

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1806322

Report Date: 02/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 18-26 Batch: WG1091884-3 WG1091884-4								
Trichloroethene	113		111		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	114		113		70-130
Dibromofluoromethane	100		100		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 18-26 QC Batch ID: WG1091884-6 WG1091884-7 QC Sample: L1806322-19 Client ID: 9179-20180222-1140												
Trichloroethene	ND	32	52	**162**	Q	54	**168**	Q	70-130	4		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		97		70-130
4-Bromofluorobenzene	114		116		70-130
Dibromofluoromethane	99		99		70-130
Toluene-d8	99		98		70-130

METALS

Project Name:	RACER	**Lab Number:**	L1806322
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SAMPLE RESULTS

Lab ID:	L1806322-01	Date Collected:	02/22/18 15:22
Client ID:	9179-20180222-1522	Date Received:	02/22/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	63%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	338		mg/kg	15.0	0.803	5	02/23/18 07:00	02/23/18 12:28	EPA 3050B	1,6010C	PS

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SAMPLE RESULTS

Lab ID:	L1806322-02	Date Collected:	02/22/18 15:25
Client ID:	9179-20180222-1525	Date Received:	02/22/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	68%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	191		mg/kg	14.1	0.758	5	02/23/18 07:00	02/23/18 12:48	EPA 3050B	1,6010C	PS

Project Name: RACER
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SAMPLE RESULTS

Lab ID: L1806322-03
Client ID: 9179-20180222-1527
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 64%

Date Collected: 02/22/18 15:27
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	833		mg/kg	15.1	0.810	5	02/23/18 07:00	02/23/18 12:53	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806322
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SAMPLE RESULTS

Lab ID:	L1806322-04	Date Collected:	02/22/18 15:30
Client ID:	9179-20180222-1530	Date Received:	02/22/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	59%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	215		mg/kg	16.8	0.903	5	02/23/18 07:00	02/23/18 12:57	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806322
Project Number:	128598-003	**Report Date:**	02/23/18

SAMPLE RESULTS

Lab ID:	L1806322-05	Date Collected:	02/22/18 15:35
Client ID:	9179-20180222-1535	Date Received:	02/22/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	39%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	460		mg/kg	24.8	1.33	5	02/23/18 07:00	02/23/18 11:45	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806322
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SAMPLE RESULTS

Lab ID:	L1806322-06	Date Collected:	02/22/18 15:37
Client ID:	9179-20180222-1537	Date Received:	02/22/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	63%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	22000		mg/kg	15.6	0.838	5	02/23/18 07:00	02/23/18 11:50	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806322
Project Number:	128598-003	**Report Date:**	02/23/18

SAMPLE RESULTS

Lab ID:	L1806322-07	Date Collected:	02/22/18 15:40
Client ID:	9179-20180222-1540	Date Received:	02/22/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	69%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	516		mg/kg	14.2	0.760	5	02/23/18 07:00	02/23/18 11:55	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806322
Project Number:	128598-003	**Report Date:**	02/23/18

SAMPLE RESULTS

Lab ID:	L1806322-08	Date Collected:	02/22/18 15:45
Client ID:	9179-20180222-1545	Date Received:	02/22/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	65%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	298		mg/kg	13.5	0.722	5	02/23/18 07:00	02/23/18 11:59	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806322
Project Number:	128598-003	**Report Date:**	02/23/18

SAMPLE RESULTS

Lab ID:	L1806322-09	Date Collected:	02/22/18 14:10
Client ID:	9179-20180222-1410	Date Received:	02/22/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	40.2		mg/kg	10.9	0.584	5	02/23/18 07:00	02/23/18 12:04	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806322
Project Number:	128598-003	**Report Date:**	02/23/18

SAMPLE RESULTS

Lab ID:	L1806322-10	Date Collected:	02/22/18 14:40
Client ID:	9179-20180222-1440	Date Received:	02/22/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	56%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	289		mg/kg	17.6	0.942	5	02/23/18 07:00	02/23/18 11:58	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806322
Project Number:	128598-003	**Report Date:**	02/23/18

SAMPLE RESULTS

Lab ID:	L1806322-11	Date Collected:	02/22/18 14:50
Client ID:	9179-20180222-1450	Date Received:	02/22/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	65%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	227		mg/kg	14.7	0.789	5	02/23/18 07:00	02/23/18 12:03	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-12
Client ID: 9179-20180222-1500
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 61%

Date Collected: 02/22/18 15:00
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	733		mg/kg	15.6	0.839	5	02/23/18 07:00	02/23/18 12:08	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806322
Project Number:	128598-003	**Report Date:**	02/23/18

SAMPLE RESULTS

Lab ID:	L1806322-13	Date Collected:	02/22/18 15:10
Client ID:	9179-20180222-1510	Date Received:	02/22/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	68%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	964		mg/kg	14.0	0.748	5	02/23/18 07:00	02/23/18 12:13	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806322
Project Number:	128598-003	**Report Date:**	02/23/18

SAMPLE RESULTS

Lab ID:	L1806322-14	Date Collected:	02/22/18 15:05
Client ID:	9179-20180222-1505	Date Received:	02/22/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	67%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	119		mg/kg	14.6	0.781	5	02/23/18 07:00	02/23/18 12:18	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806322
Project Number:	128598-003	**Report Date:**	02/23/18

SAMPLE RESULTS

Lab ID:	L1806322-15	Date Collected:	02/22/18 15:20
Client ID:	9179-20180222-1520	Date Received:	02/22/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	64%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	295		mg/kg	15.0	0.805	5	02/23/18 07:00	02/23/18 12:23	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806322
Project Number:	128598-003	**Report Date:**	02/23/18

SAMPLE RESULTS

Lab ID:	L1806322-16	Date Collected:	02/22/18 15:15
Client ID:	9179-20180222-1515	Date Received:	02/22/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	69%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	305		mg/kg	14.0	0.752	5	02/23/18 07:00	02/23/18 12:28	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-17
Client ID: 9179-20180222-DUP
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 69%

Date Collected: 02/22/18 00:00
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	201		mg/kg	13.9	0.746	5	02/23/18 07:00	02/23/18 12:32	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806322
Report Date: 02/23/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-17 Batch: WG1091749-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	02/23/18 07:00	02/23/18 12:19	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1806322

Report Date: 02/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-17 Batch: WG1091749-2 SRM Lot Number: D098-540								
Lead, Total	90		-		82-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG1091749-3 QC Sample: L1806322-01 Client ID: 9179-20180222-1522												
Lead, Total	338.	61.6	510	**279**	Q	-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG1091749-4 QC Sample: L1806322-01 Client ID: 9179-20180222-1522						
Lead, Total	338.	292	mg/kg	15		20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-01
Client ID: 9179-20180222-1522
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 15:22
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	63.0		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-02
Client ID: 9179-20180222-1525
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 15:25
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.3		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-03
Client ID: 9179-20180222-1527
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 15:27
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.4		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-04
Client ID: 9179-20180222-1530
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 15:30
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	58.7		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-05
Client ID: 9179-20180222-1535
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 15:35
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	38.7		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-06
Client ID: 9179-20180222-1537
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 15:37
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	62.7		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-07
Client ID: 9179-20180222-1540
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 15:40
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.7		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-08
Client ID: 9179-20180222-1545
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 15:45
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.9		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-09
Client ID: 9179-20180222-1410
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 14:10
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-10
Client ID: 9179-20180222-1440
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 14:40
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	56.3		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-11
Client ID: 9179-20180222-1450
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 14:50
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.6		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-12
Client ID: 9179-20180222-1500
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 15:00
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	60.6		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-13
Client ID: 9179-20180222-1510
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 15:10
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.4		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-14
Client ID: 9179-20180222-1505
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 15:05
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.0		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-15
Client ID: 9179-20180222-1520
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 15:20
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.1		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-16
Client ID: 9179-20180222-1515
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 15:15
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.1		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-17
Client ID: 9179-20180222-DUP
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 00:00
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.0		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-18
Client ID: 9179-20180222-0950
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 09:50
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-19
Client ID: 9179-20180222-1140
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 11:40
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.1		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-20
Client ID: 9179-20180222-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 10:05
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	02/23/18 03:55	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-21
Client ID: 9179-20180222-DUP
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 00:00
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.3		%	0.100	NA	1	-	02/23/18 04:22	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-22
Client ID: 9179-20180222-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 10:20
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.7		%	0.100	NA	1	-	02/23/18 04:22	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-23
Client ID: 9179-20180222-1130
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 11:30
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	02/23/18 04:22	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-24
Client ID: 9179-20180222-1040
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 10:40
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.5		%	0.100	NA	1	-	02/23/18 04:22	121,2540G	CG

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-25
Client ID: 9179-20180222-1055
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 10:55
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.0		%	0.100	NA	1	-	02/23/18 04:22	121,2540G	CG

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806322
Report Date: 02/23/18

SAMPLE RESULTS

Lab ID: L1806322-26
Client ID: 9179-20180222-1120
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/22/18 11:20
Date Received: 02/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	53.8		%	0.100	NA	1	-	02/23/18 04:22	121,2540G	CG

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG1091739-1 QC Sample: L1806322-19 Client ID: 9179-20180222-1140						
Solids, Total	71.1	69.3	%	3		20
General Chemistry - Westborough Lab Associated sample(s): 21-26 QC Batch ID: WG1091742-1 QC Sample: L1806322-21 Client ID: 9179-20180222-DUP						
Solids, Total	67.3	71.7	%	6		20

Project Name: RACER
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Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1806322-01A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-01B	Glass 60ml unpreserved split	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-02A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-02B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-03A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-03B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-04A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-04B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-05A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-05B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-06A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-06B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-07A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-07B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-08A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-08B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-09A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-09B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-10A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-10B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-11A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1806322-11B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1806322-12A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-12B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-13A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1806322-13B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		PB-TI(180)
L1806322-14A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-14B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-15A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-15B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-16A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-16B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-17A	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1806322-17B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1806322-18A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-18B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-18C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-18D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1806322-18X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-18Y	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-18Z	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-19A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-19A1	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-19A2	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-19B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-19B1	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-19B2	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-19C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-19C1	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-19C2	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1806322-19D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1806322-19D1	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1806322-19D2	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1806322-19X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-19X1	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-19X2	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-19Y	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-19Y1	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-19Y2	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-19Z	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-19Z1	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-19Z2	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-20A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-20B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-20C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-20D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1806322-20X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-20Y	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-20Z	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-21A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-21B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-21C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-21D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1806322-21X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-21Y	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-21Z	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-22A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-22B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1806322-22C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-22D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1806322-22X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-22Y	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-22Z	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-23A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-23B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-23C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-23D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1806322-23X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-23Y	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-23Z	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-24A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-24B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-24C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-24D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1806322-24X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-24Y	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-24Z	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-25A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-25B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-25C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-25D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1806322-25X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-25Y	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-25Z	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-26A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-26B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806322
Report Date: 02/23/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1806322-26C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-26D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1806322-26X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NJ-8260HLW(14)
L1806322-26Y	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)
L1806322-26Z	Vial Water preserved split	A	NA		2.7	Y	Absent	23-FEB-18 04:49	NJ-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1806322
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GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

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REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 1 of 3

Date Rec'd in Lab 2/23/18

ALPHA Job # L1806322

H&A Information
H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information
Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project # 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables
☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Total Bottles	Sample Specific Comments
06322-01	9179-20180222-1522	2/22/18	1522	SO	DG	8					X					
-02	9179-20180222-1525		1525			8					X					
-03	9179-20180222-1527		1527			8					X					
-04	9179-20180222-1530		1530	SO		8					X					
-05	9179-20180222-1535		1535			9.5					X					
-06	9179-20180222-1537		1537			9.5					X					
-07	9179-20180222-1540		1540			9.5					X					
-08	9179-20180222-1545		1545			9.5					X					

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type						A P			
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	2/22/18 1700		2/22/18 1655
Paul Mayella	2/22/18 1915		2/22
	2/23		2/23/18 0820

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers: Brewer, ME 04412; Portsmouth, NH 03801; Mahwah, NJ 07430; Albany, NY 12205; Tonawanda, NY 14150; Holmes, PA 19043

Page 2 of 3

Date Rec'd in Lab: 2/23/18

ALPHA Job #: L1806322

Project Information

Project Name: Racer

Project Location: Ewing Township Industrial Land, Ewing, NJ

Project #: 128598-003

(Use Project name as Project #) ☐

Project Manager: ~~Dan Putz~~ Amy Murphy

ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:

Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax

☐ EQuIS (1 File) ☑ EQuIS (4 File)

☐ Other:

Billing Information

☐ Same as Client Info

PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:

☐ NJ ☐ NY

☐ Other:

H&A Information

H&A Client: Racer

H&A Address: 6500 Rockslide Rd

Cleveland OH 44131

H&A Phone: 216-706-1314

H&A Fax: amurphy@haleyaldrich.com

H&A Email: dputz@haleyaldrich.com

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration

☐ Done

☐ Lab to do

Preservation

☐ Lab to do

(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Total Bottles	Sample Specific Comments
06322-09	9179 - 20180222 -1410	2/22/18	1410	SO	DG	2.5					X					
-10	9179 - 20180222- 1440	2/22/18	1440	SO	DG	6.5					X					
-11	9179 - 20180222 - 1450		1450	SO	DG	6.5					X					
-12	9179 - 20180222 - 1500		1500	SO	DG	6.5					X					
-13	9179 - 20180222 - 1510		1510	SO	DG	7.5					X					
-14	9179 - 20180222 - 1505		1505	SO	DG	6.5					X					
-15	9179 - 20180222 - 1520		1520	SO	DG	7.5					X					
-16	9179 - 20180222 -1515		1515	SO	DG	7.5					X					
	~~9179 - 20180222 - 1520~~		1520	SO	DG	7.5	(DG)				X					Duplicate entry
-17	9179 - 20180222 - Dup	2/22/18		SO	DG						X					

Container Type: A P

Preservative:

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	2/22@1700	Paul Magelli	2/22/18 1705
Paul Magelli	2/22/18 1915		2/23/18 0720

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ALPHA ANALYTICAL

CHAIN OF CUSTODY

Page 3 of 3

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Date Rec'd in Lab: 2/23/18

ALPHA Job #: L1806322

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

H&A Information
H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax: amurphy@haleyaldrich.com
H&A Email: dputz@haleyaldrich.com

Project Information
Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables
☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
06322-18	9179 - 20180222 - 0950	2/22/18	0950	SO	DG	4.5	X						
-19	9179 - 20180222 - 1140	2/22/18	1140	SO	DG	10	X						MS/MSD
-20	9179 - 20180222 - 1005	2/22/18	1005	SO		5.5	X						
-21	9179 - 20180222 - DUP						X						
-22	9179 - 20180222 - 1020	DG	DG 1020	SO		8	X						Time is 1020
-23	9179 - 20180222 - 1130		1130			8	X						
-24	9179 - 20180222 - 1040		1040			10	X						
-25	9179 - 20180222 - 1055		1055			10	X						
-26	9179 - 20180222 - 1120		1120			10	X						Time 1120
	9179 - 20180222 - 1130	2/22/18	1130	SO	DG	8	X	DG					Repeat entry

ANALYSIS

Container Type: E
Preservative: A

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

DG 2/22/18

Relinquished By:	Date/Time	Received By:	Date/Time
	2:12 PM	Paul Magnella	2/22/18 1605
Paul Magnella 2/23	2/22/18 1915 0220	2/20	2/23/18 0220

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1806523
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	02/26/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1806523-01	9179-022318-DUP	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 00:00	02/23/18
L1806523-02	9179-022318-1155	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 11:55	02/23/18
L1806523-03	9179-022318-1040	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 10:40	02/23/18
L1806523-04	9179-022318-1030	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 10:30	02/23/18
L1806523-05	9179-022318-1145	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 11:45	02/23/18
L1806523-06	9179-022318-1140	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 11:40	02/23/18
L1806523-07	9179-022318-1045	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 10:45	02/23/18
L1806523-08	9179-022318-1150	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 11:50	02/23/18
L1806523-09	9179-022318-1035	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 10:35	02/23/18
L1806523-10	9179-022318-1435	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 14:35	02/23/18
L1806523-11	9179-022318-1400	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 14:00	02/23/18
L1806523-12	9179-022318-1405	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 14:05	02/23/18
L1806523-13	9179-022318-1410	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 14:10	02/23/18
L1806523-14	9179-022318-1415	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 14:15	02/23/18
L1806523-15	9179-022318-1420	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 14:20	02/23/18
L1806523-16	9179-022318-1425	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 14:25	02/23/18
L1806523-17	9179-022318-1430	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/23/18 14:30	02/23/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: RACER **Lab Number:** L1806523
Project Number: 128598-003 **Report Date:** 02/26/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Sample Receipt

At the client's request, MS/MSD was performed on L1806523-11 (9179-022318-1400) instead of -10 (9179-022318-1435).

Total Metals

In reference to question 4:

The WG1092079-7/-8 MS/MSD recoveries for lead (0%/0%), performed on L1806523-11 (9179-022318-1400), do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1092079-8 MS/MSD RPD for lead (105%), performed on L1806523-11 (9179-022318-1400), is above the acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Amita Naik

Title: Technical Director/Representative Date: 02/26/18

METALS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-01
Client ID: 9179-022318-DUP
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 78%

Date Collected: 02/23/18 00:00
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	19.5		mg/kg	2.48	0.516	5	02/24/18 08:00	02/26/18 11:28	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806523
Project Number:	128598-003	**Report Date:**	02/26/18

SAMPLE RESULTS

Lab ID:	L1806523-02	Date Collected:	02/23/18 11:55
Client ID:	9179-022318-1155	Date Received:	02/23/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	21.2		mg/kg	2.40	0.500	5	02/24/18 08:00	02/26/18 11:32	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806523
Project Number:	128598-003	**Report Date:**	02/26/18

SAMPLE RESULTS

Lab ID:	L1806523-03	Date Collected:	02/23/18 10:40
Client ID:	9179-022318-1040	Date Received:	02/23/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	21.2		mg/kg	2.25	0.469	5	02/24/18 08:00	02/26/18 11:36	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-04
Client ID: 9179-022318-1030
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 86%
Date Collected: 02/23/18 10:30
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	24.7		mg/kg	2.30	0.479	5	02/24/18 08:00	02/26/18 11:40	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806523
Project Number:	128598-003	**Report Date:**	02/26/18

SAMPLE RESULTS

Lab ID:	L1806523-05	Date Collected:	02/23/18 11:45
Client ID:	9179-022318-1145	Date Received:	02/23/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	18.8		mg/kg	2.30	0.479	5	02/24/18 08:00	02/26/18 11:44	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-06
Client ID: 9179-022318-1140
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 02/23/18 11:40
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	22.7		mg/kg	2.46	0.512	5	02/24/18 08:00	02/26/18 11:49	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806523
Project Number:	128598-003	**Report Date:**	02/26/18

SAMPLE RESULTS

Lab ID:	L1806523-07	Date Collected:	02/23/18 10:45
Client ID:	9179-022318-1045	Date Received:	02/23/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	24.3		mg/kg	2.29	0.476	5	02/24/18 08:00	02/26/18 10:37	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-08
Client ID: 9179-022318-1150
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 02/23/18 11:50
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	21.3		mg/kg	2.39	0.497	5	02/24/18 08:00	02/26/18 11:53	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-09
Client ID: 9179-022318-1035
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 84%

Date Collected: 02/23/18 10:35
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	23.7		mg/kg	2.27	0.472	5	02/24/18 08:00	02/26/18 11:57	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806523
Project Number:	128598-003	**Report Date:**	02/26/18

SAMPLE RESULTS

Lab ID:	L1806523-10	Date Collected:	02/23/18 14:35
Client ID:	9179-022318-1435	Date Received:	02/23/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	67%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	561		mg/kg	14.1	0.755	5	02/24/18 08:00	02/26/18 12:10	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-11
Client ID: 9179-022318-1400
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 62%

Date Collected: 02/23/18 14:00
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	1370		mg/kg	15.2	0.816	5	02/24/18 08:00	02/26/18 10:58	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806523
Project Number:	128598-003	**Report Date:**	02/26/18

SAMPLE RESULTS

Lab ID:	L1806523-12	Date Collected:	02/23/18 14:05
Client ID:	9179-022318-1405	Date Received:	02/23/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	204		mg/kg	12.1	0.648	5	02/24/18 08:00	02/26/18 12:14	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806523
Project Number:	128598-003	**Report Date:**	02/26/18

SAMPLE RESULTS

Lab ID:	L1806523-13	Date Collected:	02/23/18 14:10
Client ID:	9179-022318-1410	Date Received:	02/23/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	69%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	340		mg/kg	13.7	0.734	5	02/24/18 08:00	02/26/18 12:19	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806523
Project Number:	128598-003	**Report Date:**	02/26/18

SAMPLE RESULTS

Lab ID:	L1806523-14	Date Collected:	02/23/18 14:15
Client ID:	9179-022318-1415	Date Received:	02/23/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	71%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	372		mg/kg	14.0	0.750	5	02/24/18 08:00	02/26/18 12:23	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-15
Client ID: 9179-022318-1420
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 64%

Date Collected: 02/23/18 14:20
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	100		mg/kg	14.9	0.800	5	02/24/18 08:00	02/26/18 12:27	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806523
Project Number:	128598-003	**Report Date:**	02/26/18

SAMPLE RESULTS

Lab ID:	L1806523-16	Date Collected:	02/23/18 14:25
Client ID:	9179-022318-1425	Date Received:	02/23/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	70%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	256		mg/kg	14.1	0.756	5	02/24/18 08:00	02/26/18 12:31	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1806523
Project Number:	128598-003	**Report Date:**	02/26/18

SAMPLE RESULTS

Lab ID:	L1806523-17	Date Collected:	02/23/18 14:30
Client ID:	9179-022318-1430	Date Received:	02/23/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	69%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	323		mg/kg	13.8	0.738	5	02/24/18 08:00	02/26/18 12:36	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806523
Report Date: 02/26/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-17 Batch: WG1092079-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	02/24/18 08:00	02/26/18 10:29	1,6010C	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	02/24/18 08:00	02/26/18 10:29	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1806523

Report Date: 02/26/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-17 Batch: WG1092079-2 SRM Lot Number: D098-540								
Arsenic, Total	117		-		83-117	-		
Lead, Total	107		-		82-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG1092079-3 WG1092079-4 QC Sample: L1806523-07 Client ID: 9179-022318-1045												
Arsenic, Total	24.3	10.7	35.5	104		37.0	116		75-125	4		20
Lead, Total	27.7	45.6	72.8	99		72.2	96		75-125	1		20
Total Metals - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG1092079-7 WG1092079-8 QC Sample: L1806523-11 Client ID: 9179-022318-1400												
Arsenic, Total	32.7	15.4	52.3	**127**	Q	47.9	100		75-125	9		20
Lead, Total	1370	65.6	1110	**0**	Q	344	**0**	Q	75-125	**105**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-01
Client ID: 9179-022318-DUP
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 00:00
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.5		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-02
Client ID: 9179-022318-1155
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 11:55
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-03
Client ID: 9179-022318-1040
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 10:40
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.1		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-04
Client ID: 9179-022318-1030
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 10:30
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.6		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-05
Client ID: 9179-022318-1145
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 11:45
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.0		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-06
Client ID: 9179-022318-1140
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 11:40
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.7		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-07
Client ID: 9179-022318-1045
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 10:45
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-08
Client ID: 9179-022318-1150
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 11:50
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-09
Client ID: 9179-022318-1035
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 10:35
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.7		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-10
Client ID: 9179-022318-1435
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 14:35
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.4		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-11
Client ID: 9179-022318-1400
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 14:00
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	62.2		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-12
Client ID: 9179-022318-1405
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 14:05
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.9		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-13
Client ID: 9179-022318-1410
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 14:10
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.5		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-14
Client ID: 9179-022318-1415
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 14:15
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.0		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-15
Client ID: 9179-022318-1420
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 14:20
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.0		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-16
Client ID: 9179-022318-1425
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 14:25
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.3		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

SAMPLE RESULTS

Lab ID: L1806523-17
Client ID: 9179-022318-1430
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/23/18 14:30
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.6		%	0.100	NA	1	-	02/24/18 00:45	121,2540G	FN

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-17 QC Batch ID: WG1092046-1 QC Sample: L1806523-07 Client ID: 9179-022318-1045						
Solids, Total	87.2	87.0	%	0		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1806523-01A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1806523-02A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1806523-03A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1806523-04A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1806523-05A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1806523-06A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1806523-07A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-07B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-07C	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-07D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1806523-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1806523-07F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1806523-08A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-08B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1806523-09A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-09B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1806523-10A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806523
Report Date: 02/26/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1806523-10B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-10C	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-10D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		PB-TI(180)
L1806523-10E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		PB-TI(180)
L1806523-10F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		PB-TI(180)
L1806523-11A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-11B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		PB-TI(180)
L1806523-12A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-12B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		PB-TI(180)
L1806523-13A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-13B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		PB-TI(180)
L1806523-14A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-14B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		PB-TI(180)
L1806523-15A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-15B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		PB-TI(180)
L1806523-16A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-16B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		PB-TI(180)
L1806523-17A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1806523-17B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1806523
Project Number:	128598-003	**Report Date:**	02/26/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1806523
Project Number:	128598-003	**Report Date:**	02/26/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1806523
Project Number:	128598-003	**Report Date:**	02/26/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 1 of 2

Date Rec'd in Lab 2/23/18

ALPHA Job # L1806523

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project # 128598-003
(Use Project name as Project #) ☐
Project Manager: ~~D. Putz~~ Amy Murphy
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Sample Specific Comments
06523-01	9179-022318-Dup	2/23/18		SO	DG				X						
02	9179-022318-1155		1155			7.5			X						
03	9179-022318-1040		1040			1			X						
04	9179-022318-1030		1030			1			X						
05	9179-022318-1145		1145			7.5			X						
06	9179-022318-1140		1140			7.5			X						
07	9179-022318-1045		1045			1			X						MS/MSD
08	9179-022318-1150		1150			7.5			X						
09	9179-022318-1035	↓	1035	↓	↓	1			X						
10	9179-022318-1435	2/23/18	1435	SO	DG	8.5			X (DG)		X		MS/MSD		Analyze for lead only
	Container Type								A P						
	Preservative														

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottles

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	2/23/18 1600		2-23-18 16:00
	2-23-18 18:55		2/23/18 1555
	2/23/18 2045		2/23/18 2245

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 2 of 2

Date Rec'd in Lab: 2/23/18

ALPHA Job #: L1806523

Project Information
- Project Name: Racer
- Project Location: Ewing Township Industrial Land, Ewing, NJ
- Project # 128598-003
- (Use Project name as Project #) ☐
- Project Manager: ~~Dan Putz~~ Amy Murphy
- ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
- Standard ☐ Due Date:
- Rush (only if pre approved) ☑ # of Days: 1

Deliverables
- ☑ Email ☐ Fax
- ☐ EQuIS (1 File) ☑ EQuIS (4 File)
- ☐ Other:

Billing Information
- ☐ Same as Client Info
- PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
- ☐ NJ ☐ NY
- ☐ Other:

H&A Information
- H&A Client: Racer
- H&A Address: 6500 Rockslide Rd
- Cleveland OH 44131
- H&A Phone: 216-706-1314
- H&A Fax:
- H&A Email: dputz@haleyaldrich.com

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
- ☐ Done
- ☐ Lab to do

Preservation
- ☐ Lab to do

(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles
06523 -11	9179-022318-1400	2/23/18	1400	SO	DG	7.5					X	
12	9179-022318-1405	"	1405	"	"	7.5					X	
13	9179-022318-1410	"	1410	"	"	7.5					X	
14	9179-022318-1415	"	1415	"	"	7.5					X	
15	9179-022318-1420	"	1420	"	"	8.5					X	
16	9179-022318-1425	2/23/18	1425	SO	DG	8.5					X	
17	9179-022318-1430	2/23/18	1430	SO	DG	8.5					X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	2/23/18 1600		2-23-18 16:00
	2.23.18 18:55		2/23/18 1455
	2/23/18		2/23/18 2245

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1806600
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	02/27/18

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1806600-01	9179-022618-1055	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/26/18 10:55	02/26/18
L1806600-02	9179-022618-1045	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/26/18 10:45	02/26/18
L1806600-03	9179-022618-1050	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/26/18 10:50	02/26/18
L1806600-04	9179-022618-1100	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/26/18 11:00	02/26/18
L1806600-05	9179-022618-1200	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/26/18 12:00	02/26/18
L1806600-06	9179-022618-1145	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/26/18 11:45	02/26/18
L1806600-07	9179-022618-1150	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/26/18 11:50	02/26/18
L1806600-08	9179-022618-1155	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/26/18 11:55	02/26/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	YES
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	NO

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	RACER	**Lab Number:**	L1806600
Project Number:	128598-003	**Report Date:**	02/27/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Amita Naik

Title: Technical Director/Representative Date: 02/27/18

ORGANICS

VOLATILES

Project Name: RACER **Lab Number:** L1806600

Project Number: 128598-003 **Report Date:** 02/27/18

SAMPLE RESULTS

Lab ID:	L1806600-01	Date Collected:	02/26/18 10:55
Client ID:	9179-022618-1055	Date Received:	02/26/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	02/27/18 09:21		
Analyst:	MV		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	1.4		mg/kg	0.060	0.018	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	90		70-130

Project Name: RACER
Lab Number: L1806600
Project Number: 128598-003
Report Date: 02/27/18

SAMPLE RESULTS

Lab ID: L1806600-02
Client ID: 9179-022618-1045
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/18 10:13
Analyst: MV
Percent Solids: 82%

Date Collected: 02/26/18 10:45
Date Received: 02/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	0.022		mg/kg	0.0012	0.00037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	91		70-130

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806600
Report Date: 02/27/18

SAMPLE RESULTS

Lab ID: L1806600-03
Client ID: 9179-022618-1050
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/18 10:39
Analyst: MV
Percent Solids: 86%

Date Collected: 02/26/18 10:50
Date Received: 02/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	0.0058		mg/kg	0.00095	0.00029	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	91		70-130

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806600
Report Date: 02/27/18

SAMPLE RESULTS

Lab ID: L1806600-04
Client ID: 9179-022618-1100
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/18 09:47
Analyst: MV
Percent Solids: 83%

Date Collected: 02/26/18 11:00
Date Received: 02/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	6.6		mg/kg	0.063	0.019	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	89		70-130

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806600
Report Date: 02/27/18

SAMPLE RESULTS

Lab ID: L1806600-05
Client ID: 9179-022618-1200
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/18 11:05
Analyst: MV
Percent Solids: 84%

Date Collected: 02/26/18 12:00
Date Received: 02/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	0.0084		mg/kg	0.0010	0.00032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	91		70-130

Project Name: RACER **Lab Number:** L1806600

Project Number: 128598-003 **Report Date:** 02/27/18

SAMPLE RESULTS

Lab ID:	L1806600-06	Date Collected:	02/26/18 11:45
Client ID:	9179-022618-1145	Date Received:	02/26/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	02/27/18 11:31		
Analyst:	MV		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	0.0042		mg/kg	0.0010	0.00031	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	90		70-130

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806600
Report Date: 02/27/18

SAMPLE RESULTS

Lab ID: L1806600-07
Client ID: 9179-022618-1150
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/18 11:57
Analyst: MV
Percent Solids: 81%

Date Collected: 02/26/18 11:50
Date Received: 02/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	0.0067		mg/kg	0.0011	0.00032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	90		70-130

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806600
Report Date: 02/27/18

SAMPLE RESULTS

Lab ID: L1806600-08
Client ID: 9179-022618-1155
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/18 13:16
Analyst: JC
Percent Solids: 82%

Date Collected: 02/26/18 11:55
Date Received: 02/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	0.0013		mg/kg	0.0011	0.00034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	89		70-130

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/27/18 08:55
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01,04 Batch: WG1092705-5					
Trichloroethene	ND		mg/kg	0.050	0.015

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	88		70-130

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/27/18 08:55
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 02-03,05-08 Batch: WG1092773-5					
Trichloroethene	ND		mg/kg	0.0010	0.00030

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	88		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1806600

Report Date: 02/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01,04 Batch: WG1092705-3 WG1092705-4								
Trichloroethene	89		84		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		101		70-130
Toluene-d8	107		107		70-130
4-Bromofluorobenzene	112		113		70-130
Dibromofluoromethane	91		91		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 02-03,05-08 Batch: WG1092773-3 WG1092773-4								
Trichloroethene	89		84		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		101		70-130
Toluene-d8	107		107		70-130
4-Bromofluorobenzene	112		113		70-130
Dibromofluoromethane	91		91		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

SAMPLE RESULTS

Lab ID: L1806600-01
Client ID: 9179-022618-1055
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/26/18 10:55
Date Received: 02/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	02/26/18 23:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

SAMPLE RESULTS

Lab ID: L1806600-02
Client ID: 9179-022618-1045
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/26/18 10:45
Date Received: 02/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.1		%	0.100	NA	1	-	02/26/18 23:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

SAMPLE RESULTS

Lab ID: L1806600-03
Client ID: 9179-022618-1050
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/26/18 10:50
Date Received: 02/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.9		%	0.100	NA	1	-	02/26/18 23:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806600
Report Date: 02/27/18

SAMPLE RESULTS

Lab ID: L1806600-04
Client ID: 9179-022618-1100
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/26/18 11:00
Date Received: 02/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	02/26/18 23:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

SAMPLE RESULTS

Lab ID: L1806600-05
Client ID: 9179-022618-1200
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/26/18 12:00
Date Received: 02/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	02/26/18 23:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

SAMPLE RESULTS

Lab ID: L1806600-06
Client ID: 9179-022618-1145
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/26/18 11:45
Date Received: 02/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	02/26/18 23:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

SAMPLE RESULTS

Lab ID: L1806600-07
Client ID: 9179-022618-1150
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/26/18 11:50
Date Received: 02/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.3		%	0.100	NA	1	-	02/26/18 23:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

SAMPLE RESULTS

Lab ID: L1806600-08
Client ID: 9179-022618-1155
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/26/18 11:55
Date Received: 02/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	02/26/18 23:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1806600-01A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-01B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-01C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-01D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1806600-01X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-01Y	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-01Z	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-02A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-02B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-02C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-02D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1806600-02X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-02Y	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-02Z	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-03A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-03B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-03C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-03D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1806600-03X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-03Y	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-03Z	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-04A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-04B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1806600-04C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-04D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1806600-04X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-04Y	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-04Z	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-05A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-05B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-05C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-05D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1806600-05X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-05Y	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-05Z	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-06A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-06B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-06C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-06D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1806600-06X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-06Y	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-06Z	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-07A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-07B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-07C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-07D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1806600-07X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-07Y	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-07Z	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-08A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-08B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806600
Report Date: 02/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1806600-08C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-08D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1806600-08X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NJ-8260HLW(14)
L1806600-08Y	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)
L1806600-08Z	Vial Water preserved split	A	NA		2.8	Y	Absent	27-FEB-18 02:14	NJ-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1806600
Project Number:	128598-003	**Report Date:**	02/27/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1806600
Project Number:	128598-003	**Report Date:**	02/27/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1806600
Project Number:	128598-003	**Report Date:**	02/27/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 1 of 1

Date Rec'd in Lab: 02/26/18

ALPHA Job #: L1806600

Project Information
- Project Name: Racer
- Project Location: Ewing Township Industrial Land, Ewing, NJ
- Project #: 128598-003
- (Use Project name as Project #) ☐
- Project Manager: (DG) ~~Dan Putz~~ Amy Murphy
- ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
- Standard ☐ Due Date:
- Rush (only if pre approved) ☑ # of Days: 1

Deliverables
- ☑ Email ☐ Fax
- ☐ EQuIS (1 File) ☑ EQuIS (4 File)
- ☐ Other:

Billing Information
- ☐ Same as Client Info
- PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
- ☐ NJ ☐ NY
- ☐ Other:

H&A Information
- H&A Client: Racer
- H&A Address: 6500 Rockslide Rd
- Cleveland OH 44131
- H&A Phone: 216-706-1314
- H&A Fax:
- H&A Email: dputz@haleyaldrich.com

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
- ☐ Done
- ☐ Lab to do

Preservation
- ☐ Lab to do

(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
06600-01	9179-022618-1055	2/26/18	1055	SO	DG	2	X						
02	9179-022618-1045	"	1045	"	"	2	X						Time is 1045
03	9179-022618-1050	"	1050	"	"	2	X						
04	9179-022618-1100	"	1100	"	"	2	X						
05	9179-022618-1200	"	1200	"	"	10	X						
06	9179-022618-1145	"	1145	"	"	10	X						
07	9179-022618-1150	"	1150	"	"	10	X						
08	9179-022618-1155	2/26/18	1155	SO	DG	10	X						

Container Type: E
Preservative:

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	2/26/18 1424		2/26 1424
	2/26 1726		2/26 1726
		Danielle Matt	2/26/18 22:04

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1806796
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	02/28/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806796
Report Date: 02/28/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1806796-01	9179-022718-1255	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 12:55	02/27/18
L1806796-02	9179-022718-1257	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 12:57	02/27/18
L1806796-03	9179-022718-1300	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 13:00	02/27/18
L1806796-04	9179-022718-1250	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 12:50	02/27/18
L1806796-05	9179-022718-1305	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 13:05	02/27/18
L1806796-06	9179-022718-1252	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 12:52	02/27/18
L1806796-07	9179-022718-1247	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 12:47	02/27/18
L1806796-08	9179-022718-1245	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 12:45	02/27/18
L1806796-09	9179-022718-1000	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 10:00	02/27/18
L1806796-10	9179-022718-0952	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 09:52	02/27/18
L1806796-11	9179-022718-0001	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 00:01	02/27/18
L1806796-12	9179-022718-1020	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 10:20	02/27/18
L1806796-13	9179-022718-0950	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 09:50	02/27/18
L1806796-14	9179-022718-1025	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 10:25	02/27/18
L1806796-15	9179-022718-1010	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 10:10	02/27/18
L1806796-16	9179-022718-1015	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 10:15	02/27/18
L1806796-17	9179-022718-0955	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	02/27/18 09:55	02/27/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806796
Report Date: 02/28/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806796
Report Date: 02/28/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806796
Report Date: 02/28/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Total Metals

In reference to question 4:

The WG1092978-4 MSD recovery, performed on L1806796-05, is outside the acceptance criteria for lead (194%). A post digestion spike was performed and was within acceptance criteria.

The WG1092978-3/-4 MS/MSD RPD, performed on L1806796-05, is above the acceptance criteria for lead (28%).

The WG1092978-7/-8 MS/MSD recoveries, performed on L1806796-14, are outside the acceptance criteria for chromium (13%/24%). A post digestion spike was performed and was within acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Cripps Melissa Cripps

Title: Technical Director/Representative Date: 02/28/18

METALS

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

SAMPLE RESULTS

Lab ID:	L1806796-01	Date Collected:	02/27/18 12:55
Client ID:	9179-022718-1255	Date Received:	02/27/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	61%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	570		mg/kg	15.6	0.838	5	02/28/18 06:40	02/28/18 12:30	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

SAMPLE RESULTS

Lab ID:	L1806796-02	Date Collected:	02/27/18 12:57
Client ID:	9179-022718-1257	Date Received:	02/27/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	56%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	475		mg/kg	17.4	0.931	5	02/28/18 06:40	02/28/18 12:35	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

SAMPLE RESULTS

Lab ID:	L1806796-03	Date Collected:	02/27/18 13:00
Client ID:	9179-022718-1300	Date Received:	02/27/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	265		mg/kg	12.8	0.686	5	02/28/18 06:40	02/28/18 12:40	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-04
Client ID: 9179-022718-1250
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 64%

Date Collected: 02/27/18 12:50
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	954		mg/kg	14.7	0.786	5	02/28/18 06:40	02/28/18 12:44	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-05
Client ID: 9179-022718-1305
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 65%

Date Collected: 02/27/18 13:05
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	143		mg/kg	15.1	0.808	5	02/28/18 06:40	02/28/18 12:11	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

SAMPLE RESULTS

Lab ID:	L1806796-06	Date Collected:	02/27/18 12:52
Client ID:	9179-022718-1252	Date Received:	02/27/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	74%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	523		mg/kg	13.3	0.713	5	02/28/18 06:40	02/28/18 12:49	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

SAMPLE RESULTS

Lab ID:	L1806796-07	Date Collected:	02/27/18 12:47
Client ID:	9179-022718-1247	Date Received:	02/27/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	59.8		mg/kg	12.0	0.643	5	02/28/18 06:40	02/28/18 13:25	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

SAMPLE RESULTS

Lab ID:	L1806796-08	Date Collected:	02/27/18 12:45
Client ID:	9179-022718-1245	Date Received:	02/27/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	88.1		mg/kg	11.8	0.634	5	02/28/18 06:40	02/28/18 13:30	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

SAMPLE RESULTS

Lab ID:	L1806796-09	Date Collected:	02/27/18 10:00
Client ID:	9179-022718-1000	Date Received:	02/27/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	77%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	208		mg/kg	2.56	0.246	5	02/28/18 06:40	02/28/18 13:35	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

SAMPLE RESULTS

Lab ID:	L1806796-10	Date Collected:	02/27/18 09:52
Client ID:	9179-022718-0952	Date Received:	02/27/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	83%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	263		mg/kg	2.40	0.230	5	02/28/18 06:40	02/28/18 13:39	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

SAMPLE RESULTS

Lab ID:	L1806796-11	Date Collected:	02/27/18 00:01
Client ID:	9179-022718-0001	Date Received:	02/27/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	70%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	249		mg/kg	2.80	0.268	5	02/28/18 06:40	02/28/18 13:43	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-12
Client ID: 9179-022718-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 77%

Date Collected: 02/27/18 10:20
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	103		mg/kg	2.52	0.241	5	02/28/18 06:40	02/28/18 14:11	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

SAMPLE RESULTS

Lab ID:	L1806796-13	Date Collected:	02/27/18 09:50
Client ID:	9179-022718-0950	Date Received:	02/27/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	71%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	288		mg/kg	2.76	0.265	5	02/28/18 06:40	02/28/18 14:15	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-14
Client ID: 9179-022718-1025
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 02/27/18 10:25
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	49.2		mg/kg	2.43	0.233	5	02/28/18 06:40	02/28/18 13:07	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

SAMPLE RESULTS

Lab ID:	L1806796-15	Date Collected:	02/27/18 10:10
Client ID:	9179-022718-1010	Date Received:	02/27/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	18.0		mg/kg	2.40	0.231	5	02/28/18 06:40	02/28/18 14:20	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

SAMPLE RESULTS

Lab ID:	L1806796-16	Date Collected:	02/27/18 10:15
Client ID:	9179-022718-1015	Date Received:	02/27/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	78%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	74.5		mg/kg	2.51	0.241	5	02/28/18 06:40	02/28/18 14:24	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

SAMPLE RESULTS

Lab ID:	L1806796-17	Date Collected:	02/27/18 09:55
Client ID:	9179-022718-0955	Date Received:	02/27/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	74%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	202		mg/kg	2.65	0.255	5	02/28/18 06:40	02/28/18 14:29	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-17 Batch: WG1092978-1										
Chromium, Total	0.052	J	mg/kg	0.400	0.038	1	02/28/18 06:40	02/28/18 10:33	1,6010C	PS
Lead, Total	ND		mg/kg	2.00	0.107	1	02/28/18 06:40	02/28/18 10:33	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1806796

Report Date: 02/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-17 Batch: WG1092978-2 SRM Lot Number: D098-540								
Chromium, Total	90		-		83-119	-		
Lead, Total	89		-		82-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806796
Report Date: 02/28/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG1092978-3 WG1092978-4 QC Sample: L1806796-05 Client ID: 9179-022718-1305												
Chromium, Total	771.	24.2	577	**0**	Q	695	**0**	Q	75-125	19		20
Lead, Total	143.	61.6	198	89		262	**194**	Q	75-125	**28**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG1092978-7 WG1092978-8 QC Sample: L1806796-14 Client ID: 9179-022718-1025												
Chromium, Total	49.2	18.8	51.6	**13**	Q	53.6	**24**	Q	75-125	4		20
Lead, Total	28.4	47.8	64.8	76		61.3	**69**	Q	75-125	6		20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-01
Client ID: 9179-022718-1255
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 12:55
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	61.0		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-02
Client ID: 9179-022718-1257
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 12:57
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	56.2		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-03
Client ID: 9179-022718-1300
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 13:00
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.9		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-04
Client ID: 9179-022718-1250
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 12:50
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.3		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-05
Client ID: 9179-022718-1305
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 13:05
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	65.2		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-06
Client ID: 9179-022718-1252
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 12:52
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.0		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-07
Client ID: 9179-022718-1247
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 12:47
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.7		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-08
Client ID: 9179-022718-1245
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 12:45
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-09
Client ID: 9179-022718-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 10:00
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.9		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-10
Client ID: 9179-022718-0952
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 09:52
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.7		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-11
Client ID: 9179-022718-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Date Collected: 02/27/18 00:01
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.7		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-12
Client ID: 9179-022718-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 10:20
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.8		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-13
Client ID: 9179-022718-0950
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 09:50
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.2		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-14
Client ID: 9179-022718-1025
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 10:25
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.1		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-15
Client ID: 9179-022718-1010
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 10:10
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-16
Client ID: 9179-022718-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 10:15
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.7		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1806796
Report Date: 02/28/18

SAMPLE RESULTS

Lab ID: L1806796-17
Client ID: 9179-022718-0955
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 09:55
Date Received: 02/27/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.8		%	0.100	NA	1	-	02/28/18 01:34	121,2540G	FN

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806796
Report Date: 02/28/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-17 QC Batch ID: WG1092946-1 QC Sample: L1806796-05 Client ID: 9179-022718-1305						
Solids, Total	65.2	66.6	%	2		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806796
Report Date: 02/28/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1806796-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1806796-01B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1806796-02B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1806796-03B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1806796-04B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1806796-05A1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1806796-05A2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1806796-05B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-05B1	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-05B2	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1806796-06B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1806796-07B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1806796-08B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		CR-TI(180)
L1806796-09B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		CR-TI(180)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1806796
Report Date: 02/28/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1806796-10B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-11A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		CR-TI(180)
L1806796-11B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		CR-TI(180)
L1806796-12B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		CR-TI(180)
L1806796-13B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-14A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		CR-TI(180)
L1806796-14A1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		CR-TI(180)
L1806796-14A2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		CR-TI(180)
L1806796-14B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-14B1	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-14B2	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-15A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		CR-TI(180)
L1806796-15B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-16A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		CR-TI(180)
L1806796-16B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1806796-17A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		CR-TI(180)
L1806796-17B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1806796
Project Number:	128598-003	**Report Date:**	02/28/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers: Brewer, ME 04412; Portsmouth, NH 03801; Mahwah, NJ 07430; Albany, NY 12205; Tonawanda, NY 14150; Holmes, PA 19043

Page 1 of 2

Date Rec'd in Lab: 02/27/17

ALPHA Job #: L1806796

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Amy Murphy
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
06796-01	9179-022718-1255	2/27/18	1255	SO	DG	8.0					X		
02	9179-022718-1257		1257			8.5					X		
03	9179-022718-1300		1300			8.0					X		
04	9179-022718-1250		1250			8.0					X		
05	9179-022718-1305		1305			8.5					X		MS/MSD
06	9179-022718-1252		1252			8.5					X		
07	9179-022718-1247		1247			8.5					X		
08	9179-022718-1245		1245			8.0					X		
09	9179-022718-1000		1000			2.0		X					
10	9179-022718-0952	2/27/18	0952	SO	DG	2.0		X					

Container Type
Preservative

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	2/27 18 4:15		2-27-18 4:15
	2-27-18 18:26		2/27/18 20:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers: Brewer, ME 04412 — Portsmouth, NH 03801 — Mahwah, NJ 07430 — Albany, NY 12205 — Tonawanda, NY 14150 — Holmes, PA 19043

Page 2 of 2

Date Rec'd in Lab: 02/27/17

ALPHA Job #: L1806796

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Amy Murphy
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Sample Specific Comments
06796-11	9179-022718-0001	2/27/18	0001	SO	06	2.0		X				Duplicate Sample
12	9179-022718-1020	2/27/18	1020			3.5		X				
13	9179-022718-0950	2/27/18	0950			2.0		X				
14	9179-022718-1025	2/27/18	1025			3.5		X				MS/MSD
15	9179-022718-1010	2/27/18	1010			3.5		X				
16	9179-022718-1015	2/27/18	1015			3.5		X				
17	9179-022718-0955	2/27/18	0955			2.0		X				

Container Type: P, A
Preservative:

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottles

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
BJB	2/27/18 1815	BJB DAL	2-27-18 1815
BJB	2-27-18 18:36		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement 2015-16-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1807550
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	03/06/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1807550-01	9179-030518-0001	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 00:01	03/05/18
L1807550-02	9179-030518-0910	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 09:10	03/05/18
L1807550-03	9179-030518-0915	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 09:15	03/05/18
L1807550-04	9179-030518-0920	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 09:20	03/05/18
L1807550-05	9179-030518-0925	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 09:25	03/05/18
L1807550-06	9179-030518-0930	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 09:30	03/05/18
L1807550-07	9179-030518-0935	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 09:35	03/05/18
L1807550-08	9179-030518-0940	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 09:40	03/05/18
L1807550-09	9179-030518-0945	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 09:45	03/05/18
L1807550-10	9179-030518-0950	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 09:50	03/05/18
L1807550-11	9179-030518-0955	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 09:55	03/05/18
L1807550-12	9179-030518-1000	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 10:00	03/05/18
L1807550-13	9179-030518-1005	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 10:05	03/05/18
L1807550-14	9179-030518-1010	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 10:10	03/05/18
L1807550-15	9179-030518-1015	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 10:15	03/05/18
L1807550-16	9179-030518-1020	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 10:20	03/05/18
L1807550-17	9179-030518-1025	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 10:25	03/05/18
L1807550-18	9179-030518-0002	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 00:02	03/05/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1807550-19	9179-030518-1330	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 13:30	03/05/18
L1807550-20	9179-030518-1335	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 13:35	03/05/18
L1807550-21	9179-030518-1340	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 13:40	03/05/18
L1807550-22	9179-030518-1345	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 13:45	03/05/18
L1807550-23	9179-030518-1350	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 13:50	03/05/18
L1807550-24	9179-030518-1355	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 13:55	03/05/18
L1807550-25	9179-030518-1400	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 14:00	03/05/18
L1807550-26	9179-030518-1405	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/05/18 14:05	03/05/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	RACER	**Lab Number:**	L1807550
Project Number:	128598-003	**Report Date:**	03/06/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Total Metals

In reference to question 4:

The WG1094734-3/-4 MS/MSD recoveries, performed on L1807550-09 (9179-030518-0945), are outside the acceptance criteria for arsenic (63%/153%). A post digestion spike was performed and yielded an unacceptable recovery for arsenic (79%). This has been attributed to sample matrix.

The WG1094734-3/-4 MS/MSD RPD, performed on L1807550-09 (9179-030518-0945), is above the acceptance criteria for arsenic (35%).

The WG1094735-4 MSD recovery, performed on L1807550-22 (9179-030518-1345), is outside the acceptance criteria for lead (287%). A post digestion spike was performed and yielded an unacceptable recovery for lead (69%). This has been attributed to sample matrix.

The WG1094735-3/-4 MS/MSD RPD, performed on L1807550-22 (9179-030518-1345), is above the acceptance criteria for lead (67%).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Melissa Cripps

Title: Technical Director/Representative Date: 03/06/18

METALS

Project Name:	RACER	**Lab Number:**	L1807550
Project Number:	128598-003	**Report Date:**	03/06/18

SAMPLE RESULTS

Lab ID:	L1807550-01	Date Collected:	03/05/18 00:01
Client ID:	9179-030518-0001	Date Received:	03/05/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.34		mg/kg	0.458	0.095	1	03/06/18 07:00	03/06/18 11:02	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1807550
Project Number:	128598-003	**Report Date:**	03/06/18

SAMPLE RESULTS

Lab ID:	L1807550-02	Date Collected:	03/05/18 09:10
Client ID:	9179-030518-0910	Date Received:	03/05/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	13.9		mg/kg	0.466	0.097	1	03/06/18 07:00	03/06/18 11:06	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-03
Client ID: 9179-030518-0915
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 78%

Date Collected: 03/05/18 09:15
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	38.5		mg/kg	0.503	0.105	1	03/06/18 07:00	03/06/18 11:20	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-04
Client ID: 9179-030518-0920
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/05/18 09:20
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	10.4		mg/kg	0.487	0.101	1	03/06/18 07:00	03/06/18 11:25	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-05
Client ID: 9179-030518-0925
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 77%

Date Collected: 03/05/18 09:25
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	27.6		mg/kg	0.515	0.107	1	03/06/18 07:00	03/06/18 11:29	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-06
Client ID: 9179-030518-0930
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/05/18 09:30
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	45.0		mg/kg	0.480	0.100	1	03/06/18 07:00	03/06/18 11:34	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-07
Client ID: 9179-030518-0935
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 84%

Date Collected: 03/05/18 09:35
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	7.47		mg/kg	0.471	0.098	1	03/06/18 07:00	03/06/18 11:38	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-08
Client ID: 9179-030518-0940
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/05/18 09:40
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	19.3		mg/kg	0.487	0.101	1	03/06/18 07:00	03/06/18 11:43	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-09
Client ID: 9179-030518-0945
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/05/18 09:45
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	15.7		mg/kg	0.473	0.098	1	03/06/18 07:00	03/06/18 10:38	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-10
Client ID: 9179-030518-0950
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 75%

Date Collected: 03/05/18 09:50
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	22.5		mg/kg	0.526	0.109	1	03/06/18 07:00	03/06/18 11:48	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-11
Client ID: 9179-030518-0955
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 86%

Date Collected: 03/05/18 09:55
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.91		mg/kg	0.457	0.095	1	03/06/18 07:00	03/06/18 11:52	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-12
Client ID: 9179-030518-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 78%

Date Collected: 03/05/18 10:00
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	12.5		mg/kg	0.494	0.103	1	03/06/18 07:00	03/06/18 11:57	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-13
Client ID: 9179-030518-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 87%

Date Collected: 03/05/18 10:05
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.742		mg/kg	0.444	0.092	1	03/06/18 07:00	03/06/18 12:01	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-14
Client ID: 9179-030518-1010
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/05/18 10:10
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	37.3		mg/kg	0.486	0.101	1	03/06/18 07:00	03/06/18 12:15	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-15
Client ID: 9179-030518-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 87%

Date Collected: 03/05/18 10:15
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.26		mg/kg	0.454	0.094	1	03/06/18 07:00	03/06/18 12:20	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-16
Client ID: 9179-030518-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 75%

Date Collected: 03/05/18 10:20
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	35.6		mg/kg	0.520	0.108	1	03/06/18 07:00	03/06/18 12:24	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-17
Client ID: 9179-030518-1025
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 86%
Date Collected: 03/05/18 10:25
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.20		mg/kg	0.449	0.093	1	03/06/18 07:00	03/06/18 12:29	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-18
Client ID: 9179-030518-0002
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/05/18 00:02
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	80.3		mg/kg	2.34	0.125	1	03/06/18 07:00	03/06/18 12:34	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-19
Client ID: 9179-030518-1330
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/05/18 13:30
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	74.5		mg/kg	2.38	0.127	1	03/06/18 07:00	03/06/18 12:38	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-20
Client ID: 9179-030518-1335
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 62%

Date Collected: 03/05/18 13:35
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	122		mg/kg	3.17	0.170	1	03/06/18 07:00	03/06/18 12:43	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-21
Client ID: 9179-030518-1340
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 75%

Date Collected: 03/05/18 13:40
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	66.0		mg/kg	2.53	0.136	1	03/06/18 07:00	03/06/18 10:49	EPA 3050B	1,6010C	JH

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-22
Client ID: 9179-030518-1345
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/05/18 13:45
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	49.2		mg/kg	2.43	0.130	1	03/06/18 07:00	03/06/18 10:29	EPA 3050B	1,6010C	JH

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-23
Client ID: 9179-030518-1350
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 74%

Date Collected: 03/05/18 13:50
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	166		mg/kg	2.61	0.140	1	03/06/18 07:00	03/06/18 10:54	EPA 3050B	1,6010C	JH

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-24
Client ID: 9179-030518-1355
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/05/18 13:55
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	59.0		mg/kg	2.44	0.131	1	03/06/18 07:00	03/06/18 10:58	EPA 3050B	1,6010C	JH

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-25
Client ID: 9179-030518-1400
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 77%

Date Collected: 03/05/18 14:00
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	47.8		mg/kg	2.52	0.135	1	03/06/18 07:00	03/06/18 11:03	EPA 3050B	1,6010C	JH

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-26
Client ID: 9179-030518-1405
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/05/18 14:05
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	56.8		mg/kg	2.44	0.131	1	03/06/18 07:00	03/06/18 11:08	EPA 3050B	1,6010C	JH

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-20 Batch: WG1094734-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/06/18 07:00	03/06/18 10:24	1,6010C	PS
Lead, Total	ND		mg/kg	2.00	0.107	1	03/06/18 07:00	03/06/18 10:24	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 21-26 Batch: WG1094735-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	03/06/18 07:00	03/06/18 10:10	1,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1807550

Report Date: 03/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 Batch: WG1094734-2 SRM Lot Number: D098-540								
Arsenic, Total	98		-		83-117	-		
Lead, Total	91		-		82-117	-		
Total Metals - Mansfield Lab Associated sample(s): 21-26 Batch: WG1094735-2 SRM Lot Number: D098-540								
Lead, Total	93		-		82-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1094734-3 WG1094734-4 QC Sample: L1807550-09 Client ID: 9179-030518-0945												
Arsenic, Total	15.7	11.4	22.9	**63**	Q	32.5	**153**	Q	75-125	**35**	Q	20
Lead, Total	59.1	48.6	321	**539**	Q	716	**1400**	Q	75-125	**76**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 21-26 QC Batch ID: WG1094735-3 WG1094735-4 QC Sample: L1807550-22 Client ID: 9179-030518-1345												
Lead, Total	49.2	50.1	93.4	88		187	**287**	Q	75-125	**67**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-01
Client ID: 9179-030518-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 00:01
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-02
Client ID: 9179-030518-0910
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 09:10
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-03
Client ID: 9179-030518-0915
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 09:15
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.2		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-04
Client ID: 9179-030518-0920
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 09:20
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.5		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-05
Client ID: 9179-030518-0925
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 09:25
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.5		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-06
Client ID: 9179-030518-0930
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 09:30
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.8		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-07
Client ID: 9179-030518-0935
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 09:35
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.9		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-08
Client ID: 9179-030518-0940
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 09:40
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.5		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-09
Client ID: 9179-030518-0945
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 09:45
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.9		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-10
Client ID: 9179-030518-0950
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 09:50
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.0		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-11
Client ID: 9179-030518-0955
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 09:55
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-12
Client ID: 9179-030518-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 10:00
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.8		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-13
Client ID: 9179-030518-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 10:05
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-14
Client ID: 9179-030518-1010
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 10:10
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.5		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-15
Client ID: 9179-030518-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 10:15
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-16
Client ID: 9179-030518-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 10:20
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.8		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-17
Client ID: 9179-030518-1025
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 10:25
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-18
Client ID: 9179-030518-0002
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 00:02
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.5		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-19
Client ID: 9179-030518-1330
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 13:30
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-20
Client ID: 9179-030518-1335
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 13:35
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	61.7		%	0.100	NA	1	-	03/06/18 04:06	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-21
Client ID: 9179-030518-1340
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 13:40
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.3		%	0.100	NA	1	-	03/06/18 04:31	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-22
Client ID: 9179-030518-1345
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 13:45
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.8		%	0.100	NA	1	-	03/06/18 04:31	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-23
Client ID: 9179-030518-1350
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 13:50
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.9		%	0.100	NA	1	-	03/06/18 04:31	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-24
Client ID: 9179-030518-1355
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 13:55
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.8		%	0.100	NA	1	-	03/06/18 04:31	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-25
Client ID: 9179-030518-1400
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 14:00
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.9		%	0.100	NA	1	-	03/06/18 04:31	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1807550-26
Client ID: 9179-030518-1405
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 14:05
Date Received: 03/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.8		%	0.100	NA	1	-	03/06/18 04:31	121,2540G	CG

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG1094723-1 QC Sample: L1807550-09 Client ID: 9179-030518-0945						
Solids, Total	82.9	82.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 21-26 QC Batch ID: WG1094724-1 QC Sample: L1807550-22 Client ID: 9179-030518-1345						
Solids, Total	79.8	80.4	%	1		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1807550-01A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-01B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-02A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-02B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-03A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-03B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-04A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-04B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-05A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-05B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-06A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-06B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-07A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-07B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-08A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-08B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-09A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-09A1	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-09A2	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-09B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-09B1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-09B2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1807550-10A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-10B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-11A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-11B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-12A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-12B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-13A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-13B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-14A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-14B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-15A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-15B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-16A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-16B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-17A	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L1807550-17B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.3	Y	Absent		AS-TI(180)
L1807550-18A	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1807550-18B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1807550-19A	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1807550-19B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1807550-20A	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1807550-20B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1807550-21A	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1807550-21B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1807550-22A	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1807550-22A1	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1807550-22A2	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1807550-22B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807550
Report Date: 03/06/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1807550-22B1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1807550-22B2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1807550-23A	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1807550-23B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1807550-24A	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1807550-24B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1807550-25A	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1807550-25B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1807550-26A	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1807550-26B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1807550
Project Number:	128598-003	**Report Date:**	03/06/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1807550
Project Number:	128598-003	**Report Date:**	03/06/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1807550
Project Number:	128598-003	**Report Date:**	03/06/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 1 of 3

Date Rec'd in Lab 3/6/18

ALPHA Job # L1807650

H&A Information
H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information
Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project # 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables
☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Total Bottles	Sample Specific Comments
07650-01	9179-030518-0001	3/5/18	0001	SO	DO	✓			X							Duplicate
-02	9179-030518-0910		0910			1.5			X							
-03	9179-030518-0915		0915			2.0			X							
-04	9179-030518-0920		0920			1.5			X							
-05	9179-030518-0925		0925			2.0			X							
-06	9179-030518-0930		0930			1.5			X							
-07	9179-030518-0935		0935			2.0			X							
-08	9179-030518-0940		0940			1.5			X							
-09	9179-030518-0945	↓	0945	↓	↓	2.0			X							MS/MSD
-10	9179-030518-0950	3/5/18	0950	SO	DO	1.5			X							

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	3/5/18 @ 1700	Jen Paulini AAL	3/5/18 1715
Jen Paulini	3/5/18 2018	[signature]	3/5
[signature] 3/6	0820	[signature]	3/6/18 0720

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 2 of 3

Date Rec'd in Lab: 3/6/18

ALPHA Job #: L1807550

H&A Information
H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information
Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables
☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Total Bottles	Sample Specific Comments
(DUP)	~~9179-030518-0950~~	~~3/5/18~~	~~0950~~	~~SO~~	~~06~~	~~2.0~~			X							Duplicate of 07550-11 (DUP)
07550-11	9179-030518-0955		0955			2.0			X							
-12	9179-030518-1000		1000			1.5			X							
-13	9179-030518-1005		1005			2.0			X							
-14	9179-030518-1010		1010			1.5			X							
-15	9179-030518-1015		1015			2.0			X							
-16	9179-030518-1020		1020			1.5			X							
-17	9179-030518-1025		1025			2.0			X							
-18	9179-030518-0002	↓	0002	↓	↓	/					X					Duplicate Sample
-19	9179-030518-	3/5/18	1330	SO	06	4.5					X					

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/5/18 @ 1700	Jan Pardini AAL	3/5/18 1705
Jan Pardini	3/5/18 2008		
	3/6 0720		3/6/18 0330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ALPHA ANALYTICAL

CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 3 of 3

Date Rec'd in Lab: 3/6/18

ALPHA Job #: L1807550

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Sample Specific Comments
07550-20	9179-030518-1335	3/5/18	1335	SO	DO	4.5					X				
-21	9179-030518-1340	"	1340	"	"	4.5					X				
-22	9179-030518-1345	"	1345	"	"	4.5					X				MS/MSD
-23	9179-030518-1350	"	1350	"	"	5.5					X				
-24	9179-030518-1355	"	1355	"	"	5.5					X				
-25	9179-030518-1400	"	1400	"	"	5.5					X				
-26	9179-030518-1405	3/05/18	1405	SO	DO	5.5					X				

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottles

Container Type: P, A
Preservative:

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/5/18 @ 1700	Jan Pauline AAL	3/5/18 1715
Jan Pauline	3/5/18 2008		3/6/18 0220
	3/6		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1807701
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	03/07/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1807701-01	9179-030618-0001	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 00:01	03/06/18
L1807701-02	9179-030618-0940	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 09:40	03/06/18
L1807701-03	9179-030618-0945	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 09:45	03/06/18
L1807701-04	9179-030618-0950	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 09:50	03/06/18
L1807701-05	9179-030618-0955	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 09:55	03/06/18
L1807701-06	9179-030618-1000	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 10:00	03/06/18
L1807701-07	9179-030618-1005	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 10:05	03/06/18
L1807701-08	9179-030618-1015	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 10:15	03/06/18
L1807701-09	9179-030618-1020	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 10:20	03/06/18
L1807701-10	9179-030618-1040	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 10:40	03/06/18
L1807701-11	9179-030618-1045	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 10:45	03/06/18
L1807701-12	9179-030618-1050	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 10:50	03/06/18
L1807701-13	9179-030618-1055	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 10:55	03/06/18
L1807701-14	9179-030618-1100	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 11:00	03/06/18
L1807701-15	9179-030618-1105	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 11:05	03/06/18
L1807701-16	9179-030618-1110	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 11:10	03/06/18
L1807701-17	9179-030618-1115	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 11:15	03/06/18
L1807701-18	9179-030618-1415	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 14:15	03/06/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1807701-19	9179-030618-1350	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 13:50	03/06/18
L1807701-20	9179-030618-1355	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 13:55	03/06/18
L1807701-21	9179-030618-1405	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 14:05	03/06/18
L1807701-22	9179-030618-1400	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 14:00	03/06/18
L1807701-23	9179-030618-1410	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 14:10	03/06/18
L1807701-24	9179-030618-1420	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 14:20	03/06/18
L1807701-25	9179-030618-1425	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/06/18 14:25	03/06/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	RACER	**Lab Number:**	L1807701
Project Number:	128598-003	**Report Date:**	03/07/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Total Metals

In reference to question 4:

The WG1095147-4 Laboratory Duplicate RPD for lead (162%), performed on L1807701-01 (9179-030618-0001), is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative Date: 03/07/18

METALS

Project Name:	RACER	**Lab Number:**	L1807701
Project Number:	128598-003	**Report Date:**	03/07/18

SAMPLE RESULTS

Lab ID:	L1807701-01	Date Collected:	03/06/18 00:01
Client ID:	9179-030618-0001	Date Received:	03/06/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	62%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	71.0		mg/kg	3.17	0.170	1	03/07/18 07:00	03/07/18 10:24	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1807701
Project Number:	128598-003	**Report Date:**	03/07/18

SAMPLE RESULTS

Lab ID:	L1807701-02	Date Collected:	03/06/18 09:40
Client ID:	9179-030618-0940	Date Received:	03/06/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	64%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	506		mg/kg	2.92	0.157	1	03/07/18 07:00	03/07/18 10:43	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-03
Client ID: 9179-030618-0945
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/06/18 09:45
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	215		mg/kg	2.42	0.130	1	03/07/18 07:00	03/07/18 11:06	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-04
Client ID: 9179-030618-0950
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/06/18 09:50
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	21.4		mg/kg	2.41	0.129	1	03/07/18 07:00	03/07/18 11:11	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-05
Client ID: 9179-030618-0955
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 72%

Date Collected: 03/06/18 09:55
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	642		mg/kg	2.72	0.146	1	03/07/18 07:00	03/07/18 11:16	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-06
Client ID: 9179-030618-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 68%

Date Collected: 03/06/18 10:00
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	614		mg/kg	2.77	0.149	1	03/07/18 07:00	03/07/18 11:21	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-07
Client ID: 9179-030618-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 54%

Date Collected: 03/06/18 10:05
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	424		mg/kg	3.66	0.196	1	03/07/18 07:00	03/07/18 11:26	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1807701
Project Number:	128598-003	**Report Date:**	03/07/18

SAMPLE RESULTS

Lab ID:	L1807701-08	Date Collected:	03/06/18 10:15
Client ID:	9179-030618-1015	Date Received:	03/06/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	65%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	37.1		mg/kg	2.96	0.158	1	03/07/18 07:00	03/07/18 11:30	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-09
Client ID: 9179-030618-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 61%

Date Collected: 03/06/18 10:20
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	78.3		mg/kg	3.18	0.170	1	03/07/18 07:00	03/07/18 11:35	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-10
Client ID: 9179-030618-1040
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 75%

Date Collected: 03/06/18 10:40
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	531		mg/kg	2.55	0.137	1	03/07/18 07:00	03/07/18 11:40	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-11
Client ID: 9179-030618-1045
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 75%

Date Collected: 03/06/18 10:45
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	709		mg/kg	2.57	0.138	1	03/07/18 07:00	03/07/18 12:03	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-12
Client ID: 9179-030618-1050
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 55%

Date Collected: 03/06/18 10:50
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	631		mg/kg	3.60	0.193	1	03/07/18 07:00	03/07/18 12:08	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-13
Client ID: 9179-030618-1055
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 72%

Date Collected: 03/06/18 10:55
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	636		mg/kg	2.73	0.146	1	03/07/18 07:00	03/07/18 12:13	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1807701
Project Number:	128598-003	**Report Date:**	03/07/18

SAMPLE RESULTS

Lab ID:	L1807701-14	Date Collected:	03/06/18 11:00
Client ID:	9179-030618-1100	Date Received:	03/06/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	78%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	144		mg/kg	2.48	0.133	1	03/07/18 07:00	03/07/18 12:18	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-15
Client ID: 9179-030618-1105
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 74%

Date Collected: 03/06/18 11:05
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	216		mg/kg	2.62	0.140	1	03/07/18 07:00	03/07/18 12:23	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-16
Client ID: 9179-030618-1110
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 69%

Date Collected: 03/06/18 11:10
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	50.9		mg/kg	2.77	0.148	1	03/07/18 07:00	03/07/18 12:28	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-17
Client ID: 9179-030618-1115
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 66%

Date Collected: 03/06/18 11:15
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	599		mg/kg	2.93	0.157	1	03/07/18 07:00	03/07/18 12:32	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-18
Client ID: 9179-030618-1415
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/06/18 14:15
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	368		mg/kg	0.486	0.101	1	03/07/18 07:00	03/07/18 12:37	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1807701
Project Number:	128598-003	**Report Date:**	03/07/18

SAMPLE RESULTS

Lab ID:	L1807701-19	Date Collected:	03/06/18 13:50
Client ID:	9179-030618-1350	Date Received:	03/06/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	78%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	24.0		mg/kg	0.494	0.103	1	03/07/18 07:00	03/07/18 13:00	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1807701
Project Number:	128598-003	**Report Date:**	03/07/18

SAMPLE RESULTS

Lab ID:	L1807701-20	Date Collected:	03/06/18 13:55
Client ID:	9179-030618-1355	Date Received:	03/06/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	83%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	375		mg/kg	0.479	0.100	1	03/07/18 07:00	03/07/18 13:05	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1807701
Project Number:	128598-003	**Report Date:**	03/07/18

SAMPLE RESULTS

Lab ID:	L1807701-21	Date Collected:	03/06/18 14:05
Client ID:	9179-030618-1405	Date Received:	03/06/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	448		mg/kg	0.473	0.098	1	03/07/18 07:00	03/07/18 09:41	EPA 3050B	1,6010C	AB

Project Name:	RACER	**Lab Number:**	L1807701
Project Number:	128598-003	**Report Date:**	03/07/18

SAMPLE RESULTS

Lab ID:	L1807701-22	Date Collected:	03/06/18 14:00
Client ID:	9179-030618-1400	Date Received:	03/06/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	384		mg/kg	0.467	0.097	1	03/07/18 07:00	03/07/18 09:46	EPA 3050B	1,6010C	AB

Project Name:	RACER	**Lab Number:**	L1807701
Project Number:	128598-003	**Report Date:**	03/07/18

SAMPLE RESULTS

Lab ID:	L1807701-23	Date Collected:	03/06/18 14:10
Client ID:	9179-030618-1410	Date Received:	03/06/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	428		mg/kg	0.478	0.099	1	03/07/18 07:00	03/07/18 09:51	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-24
Client ID: 9179-030618-1420
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/06/18 14:20
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	183		mg/kg	0.505	0.105	1	03/07/18 07:00	03/07/18 10:10	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-25
Client ID: 9179-030618-1425
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/06/18 14:25
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	27.1		mg/kg	0.477	0.099	1	03/07/18 07:00	03/07/18 10:14	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-20 Batch: WG1095147-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/07/18 07:00	03/07/18 10:10	1,6010C	PS
Lead, Total	ND		mg/kg	2.00	0.107	1	03/07/18 07:00	03/07/18 10:10	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 21-25 Batch: WG1095148-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/07/18 07:00	03/07/18 09:13	1,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1807701

Report Date: 03/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 Batch: WG1095147-2 SRM Lot Number: D098-540								
Arsenic, Total	93		-		83-117	-		
Lead, Total	87		-		82-117	-		
Total Metals - Mansfield Lab Associated sample(s): 21-25 Batch: WG1095148-2 SRM Lot Number: D098-540								
Arsenic, Total	101		-		83-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1095147-3 QC Sample: L1807701-01 Client ID: 9179-030618-0001												
Arsenic, Total	2.85	15.3	17.5	96		-	-		75-125	-		20
Lead, Total	71.0	64.9	130	91		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1095147-4 QC Sample: L1807701-01 Client ID: 9179-030618-0001						
Lead, Total	71.0	668	mg/kg	**162**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-01
Client ID: 9179-030618-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 00:01
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	62.1		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-02
Client ID: 9179-030618-0940
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 09:40
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.3		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-03
Client ID: 9179-030618-0945
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 09:45
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-04
Client ID: 9179-030618-0950
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 09:50
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.6		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-05
Client ID: 9179-030618-0955
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 09:55
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.6		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-06
Client ID: 9179-030618-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 10:00
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.8		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-07
Client ID: 9179-030618-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 10:05
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	54.1		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-08
Client ID: 9179-030618-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 10:15
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.8		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-09
Client ID: 9179-030618-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 10:20
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	61.0		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-10
Client ID: 9179-030618-1040
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 10:40
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.4		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-11
Client ID: 9179-030618-1045
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 10:45
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.1		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-12
Client ID: 9179-030618-1050
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 10:50
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	55.1		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-13
Client ID: 9179-030618-1055
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 10:55
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.6		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-14
Client ID: 9179-030618-1100
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 11:00
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.5		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-15
Client ID: 9179-030618-1105
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 11:05
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.9		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-16
Client ID: 9179-030618-1110
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 11:10
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.1		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-17
Client ID: 9179-030618-1115
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 11:15
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.3		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-18
Client ID: 9179-030618-1415
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 14:15
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.4		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-19
Client ID: 9179-030618-1350
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 13:50
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.5		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-20
Client ID: 9179-030618-1355
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 13:55
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.9		%	0.100	NA	1	-	03/07/18 05:59	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-21
Client ID: 9179-030618-1405
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 14:05
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.6		%	0.100	NA	1	-	03/07/18 06:37	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-22
Client ID: 9179-030618-1400
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 14:00
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.5		%	0.100	NA	1	-	03/07/18 06:37	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-23
Client ID: 9179-030618-1410
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 14:10
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.2		%	0.100	NA	1	-	03/07/18 06:37	121,2540G	RI

Project Name: RACER
Project Number: 128598-003
Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-24
Client ID: 9179-030618-1420
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Date Collected: 03/06/18 14:20
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.6		%	0.100	NA	1	-	03/07/18 06:37	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

SAMPLE RESULTS

Lab ID: L1807701-25
Client ID: 9179-030618-1425
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/06/18 14:25
Date Received: 03/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.1		%	0.100	NA	1	-	03/07/18 06:37	121,2540G	RI

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG1095151-1 QC Sample: L1807701-01 Client ID: 9179-030618-0001						
Solids, Total	62.1	63.1	%	2		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1807701-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L1807701-01B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1807701-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L1807701-02B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1807701-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L1807701-03B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1807701-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L1807701-04B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1807701-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L1807701-05B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1807701-06A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		PB-TI(180)
L1807701-06B	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1807701-07A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		PB-TI(180)
L1807701-07B	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1807701-08A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		PB-TI(180)
L1807701-08B	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1807701-09A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		PB-TI(180)
L1807701-09B	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1807701-10A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		PB-TI(180)
L1807701-10B	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1807701-11A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		PB-TI(180)
L1807701-11B	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1807701-12A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		PB-TI(180)
L1807701-12B	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1807701-13A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		PB-TI(180)
L1807701-13B	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1807701-14A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		PB-TI(180)
L1807701-14B	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1807701-15A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		PB-TI(180)
L1807701-15B	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1807701-16A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		PB-TI(180)
L1807701-16B	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1807701-17A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L1807701-17B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1807701-18A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1807701-18B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1807701-19A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1807701-19B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1807701-20A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1807701-20B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1807701-21A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1807701-21B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1807701-22A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		AS-TI(180)
L1807701-22B	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1807701-23A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		AS-TI(180)
L1807701-23B	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1807701-24A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1807701-24B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1807701-25A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1807701-25B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1807701
Report Date: 03/07/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1807701
Project Number:	128598-003	**Report Date:**	03/07/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1807701
Project Number:	128598-003	**Report Date:**	03/07/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1807701
Project Number:	128598-003	**Report Date:**	03/07/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 1 of 3

Date Rec'd in Lab: 03/06/18

ALPHA Job #: L1807701

H&A Information

H&A Client:	Racer
H&A Address:	6500 Rockslide Rd
	Cleveland OH 44131
H&A Phone:	216-706-1314
H&A Fax:	
H&A Email:	dputz@haleyaldrich.com

Project Information

Project Name:	Racer
Project Location:	Ewing Township Industrial Land, Ewing, NJ
Project #	128598-003
(Use Project name as Project #)	☐
Project Manager:	Dan Putz
ALPHAQuote #:	2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
07701-01	9179-030618-0001	3/6/18	0001	So	DG	/					X		Duplicate Sample
02	9179-030618-0940	"	0940	"	"	9.0					X		
03	9179-030618-0945	"	0945	"	"	10.0					X		
04	9179-030618-0950	"	0950	"	"	9.0					X		
05	9179-030618-0955	"	0955	"	"	10.0					X		
06	9179-030618-1000	"	1000	"	"	9.0					X		
07	9179-030618-1005	"	1005	"	"	10.0					X		
08	9179-030618-1015	"	1015	"	"	9.0					X		
09	9179-030618-1020	↓	1020	↓	↓	10.0					X		
10	9179-030618-1040	3/6/18	1040	So	DG	8.5					X		

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/6/18 @	DonD AAL	3/6/18 1500
DonD AAL	3/6/18 1925		3/6/18
			3/6/18 2356

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ALPHA ANALYTICAL

CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 2 of 3

Date Rec'd in Lab: 03/06/18

ALPHA Job #: L1807701

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Total Bottles	Sample Specific Comments
07701-11	9179-030618-1045	3/6/18	1045	SO	DG	9.0					X					
12	9179-030618-1050	"	1050	"	"	8.5					X					
13	9179-030618-1055	"	1055	"	"	9.0					X					
14	9179-030618-1100	"	1100	"	"	8.5					X					
15	9179-030618-1105	"	1105	"	"	9.0					X					
16	9179-030618-1110	"	1110	"	"	8.5					X					
17	9179-030618-1115	"	1115	"	"	9.0					X					
18	9179-030618-1415	"	1415	"	"	1.0			X							
19	9179-030618-1350	"	1350	"	"	0.5			X							
20	9179-030618-1355	3/16/18	1355	SO	DG	1.0			X							
											P A					
						Container Type										
						Preservative										

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/6/18 @	DonD AAL	3/6/18 1500
DonD AAL	3/6/18 1925		3/6/18
	3/6/18		3/6/18 2330

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Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

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TEL: 508-898-9220
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320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 3 of 3

Date Rec'd in Lab: 03/06/18

ALPHA Job #: L1807701

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project # 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
07701-21	9179-030618-1405	3/6/18	1405	SO	DG	1.0			X				
22	9179-030618-1400	3/6/18	1400			0.5			X				Depth = 0.5
23	9179-030618-1410		1410			0.5			X				
24	9179-030618-1420		1420			0.5			X				
25	9179-030618-1425	3/6/18	1425	SO	DG	1.0			X				

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	3/6/18 @	Don D AAL	3/6/18 1500
Don D AAL	3/6/18 1935		3/6/18 1935
	3/6/18 2330		3/6/18 2330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1808072
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	03/09/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1808072-01	9179-030818-0001	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 00:01	03/08/18
L1808072-02	9179-030818-1050	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 10:50	03/08/18
L1808072-03	9179-030818-1055	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 10:55	03/08/18
L1808072-04	9179-030818-1100	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 11:00	03/08/18
L1808072-05	9179-030818-1105	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 11:05	03/08/18
L1808072-06	9179-030818-1110	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 11:10	03/08/18
L1808072-07	9179-030818-1115	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 11:15	03/08/18
L1808072-08	9179-030818-1120	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 11:20	03/08/18
L1808072-09	9179-030818-1125	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 11:25	03/08/18
L1808072-10	9179-030818-1250	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 12:50	03/08/18
L1808072-11	9179-030818-1255	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 12:55	03/08/18
L1808072-12	9179-030818-1300	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 13:00	03/08/18
L1808072-13	9179-030818-1305	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 13:05	03/08/18
L1808072-14	9179-030818-1310	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 13:10	03/08/18
L1808072-15	9179-030818-1315	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 13:15	03/08/18
L1808072-16	9179-030818-1320	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 13:20	03/08/18
L1808072-17	9179-030818-1325	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 13:25	03/08/18
L1808072-18	9179-030818-0002	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 00:02	03/08/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1808072-19	9179-030818-1400	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 14:00	03/08/18
L1808072-20	9179-030818-1405	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 14:05	03/08/18
L1808072-21	9179-030818-1410	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 14:10	03/08/18
L1808072-22	9179-030818-1415	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 14:15	03/08/18
L1808072-23	9179-030818-1420	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 14:20	03/08/18
L1808072-24	9179-030818-1425	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 14:25	03/08/18
L1808072-25	9179-030818-1435	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 14:35	03/08/18
L1808072-26	9179-030818-1440	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/08/18 14:40	03/08/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Total Metals

In reference to question 4:

The WG1095777-3 MS recovery, performed on L1808072-09 (9179-030818-1125), is outside the acceptance criteria for arsenic (180%). A post digestion spike was performed and was within acceptance criteria.

The WG1095777-3/-4 MS/MSD RPD, performed on L1808072-09 (9179-030818-1125), is above the acceptance criteria for arsenic (30%).

The WG1095778-3 MS recovery, performed on L1808072-26 (9179-030818-1440), is outside the acceptance criteria for arsenic (163%). A post digestion spike was performed and yielded an unacceptable recovery of 77%. This has been attributed to sample matrix.

The WG1095778-3/-4 MS/MSD RPD, performed on L1808072-26 (9179-030818-1440), is above the acceptance criteria for arsenic (27%).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Amita Naik

Title: Technical Director/Representative Date: 03/09/18

METALS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-01
Client ID: 9179-030818-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 46%

Date Collected: 03/08/18 00:01
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	73.8		mg/kg	0.830	0.173	1	03/09/18 07:00	03/09/18 10:16	EPA 3050B	1,6010C	AB

Project Name:	RACER	**Lab Number:**	L1808072
Project Number:	128598-003	**Report Date:**	03/09/18

SAMPLE RESULTS

Lab ID:	L1808072-02	Date Collected:	03/08/18 10:50
Client ID:	9179-030818-1050	Date Received:	03/08/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	57%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	54.7		mg/kg	0.686	0.143	1	03/09/18 07:00	03/09/18 10:21	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-03
Client ID: 9179-030818-1055
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 46%

Date Collected: 03/08/18 10:55
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	77.7		mg/kg	0.864	0.180	1	03/09/18 07:00	03/09/18 10:25	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-04
Client ID: 9179-030818-1100
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 65%

Date Collected: 03/08/18 11:00
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	22.3		mg/kg	0.585	0.122	1	03/09/18 07:00	03/09/18 11:04	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-05
Client ID: 9179-030818-1105
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 68%

Date Collected: 03/08/18 11:05
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	45.3		mg/kg	0.577	0.120	1	03/09/18 07:00	03/09/18 11:09	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-06
Client ID: 9179-030818-1110
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 67%

Date Collected: 03/08/18 11:10
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	18.8		mg/kg	0.590	0.123	1	03/09/18 07:00	03/09/18 11:13	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-07
Client ID: 9179-030818-1115
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 67%

Date Collected: 03/08/18 11:15
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	10.7		mg/kg	0.592	0.123	1	03/09/18 07:00	03/09/18 11:18	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-08
Client ID: 9179-030818-1120
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 53%

Date Collected: 03/08/18 11:20
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	20.3		mg/kg	0.711	0.148	1	03/09/18 07:00	03/09/18 11:22	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-09
Client ID: 9179-030818-1125
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 55%

Date Collected: 03/08/18 11:25
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	11.7		mg/kg	0.705	0.147	1	03/09/18 07:00	03/09/18 09:59	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-10
Client ID: 9179-030818-1250
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 75%

Date Collected: 03/08/18 12:50
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	230		mg/kg	0.515	0.107	1	03/09/18 07:00	03/09/18 11:27	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-11
Client ID: 9179-030818-1255
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 76%

Date Collected: 03/08/18 12:55
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	37.1		mg/kg	0.498	0.104	1	03/09/18 07:00	03/09/18 11:31	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-12
Client ID: 9179-030818-1300
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 74%

Date Collected: 03/08/18 13:00
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	76.4		mg/kg	0.527	0.110	1	03/09/18 07:00	03/09/18 11:36	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-13
Client ID: 9179-030818-1305
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 77%

Date Collected: 03/08/18 13:05
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	13.2		mg/kg	0.500	0.104	1	03/09/18 07:00	03/09/18 11:40	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-14
Client ID: 9179-030818-1310
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 70%

Date Collected: 03/08/18 13:10
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	92.7		mg/kg	0.560	0.116	1	03/09/18 07:00	03/09/18 11:45	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1808072
Project Number:	128598-003	**Report Date:**	03/09/18

SAMPLE RESULTS

Lab ID:	L1808072-15	Date Collected:	03/08/18 13:15
Client ID:	9179-030818-1315	Date Received:	03/08/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	77%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	17.7		mg/kg	0.506	0.105	1	03/09/18 07:00	03/09/18 12:09	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-16
Client ID: 9179-030818-1320
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 59%

Date Collected: 03/08/18 13:20
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	205		mg/kg	0.663	0.138	1	03/09/18 07:00	03/09/18 12:14	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-17
Client ID: 9179-030818-1325
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 70%

Date Collected: 03/08/18 13:25
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	20.0		mg/kg	0.560	0.116	1	03/09/18 07:00	03/09/18 12:18	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-18
Client ID: 9179-030818-0002
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/08/18 00:02
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	14.5		mg/kg	0.482	0.100	1	03/09/18 07:00	03/09/18 12:22	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-19
Client ID: 9179-030818-1400
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 75%

Date Collected: 03/08/18 14:00
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	12.2		mg/kg	0.511	0.106	1	03/09/18 07:00	03/09/18 12:27	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-20
Client ID: 9179-030818-1405
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/08/18 14:05
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.29		mg/kg	0.476	0.099	1	03/09/18 07:00	03/09/18 12:31	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-21
Client ID: 9179-030818-1410
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 77%

Date Collected: 03/08/18 14:10
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	166		mg/kg	0.503	0.105	1	03/09/18 07:00	03/09/18 11:59	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-22
Client ID: 9179-030818-1415
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/08/18 14:15
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	12.2		mg/kg	0.501	0.104	1	03/09/18 07:00	03/09/18 12:03	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-23
Client ID: 9179-030818-1420
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 75%

Date Collected: 03/08/18 14:20
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	22.8		mg/kg	0.523	0.109	1	03/09/18 07:00	03/09/18 12:08	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-24
Client ID: 9179-030818-1425
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/08/18 14:25
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	15.7		mg/kg	0.471	0.098	1	03/09/18 07:00	03/09/18 12:25	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-25
Client ID: 9179-030818-1435
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 74%

Date Collected: 03/08/18 14:35
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	17.5		mg/kg	0.531	0.110	1	03/09/18 07:00	03/09/18 12:29	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-26
Client ID: 9179-030818-1440
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 76%

Date Collected: 03/08/18 14:40
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	16.9		mg/kg	0.513	0.107	1	03/09/18 07:00	03/09/18 11:41	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808072
Report Date: 03/09/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-20 Batch: WG1095777-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/09/18 07:00	03/09/18 09:50	1,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 21-26 Batch: WG1095778-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/09/18 07:00	03/09/18 11:33	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1808072

Report Date: 03/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 Batch: WG1095777-2 SRM Lot Number: D098-540								
Arsenic, Total	96		-		83-117	-		
Total Metals - Mansfield Lab Associated sample(s): 21-26 Batch: WG1095778-2 SRM Lot Number: D098-540								
Arsenic, Total	102		-		83-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1095777-3 WG1095777-4 QC Sample: L1808072-09 Client ID: 9179-030818-1125												
Arsenic, Total	11.7	16.9	42.3	**180**	Q	31.4	120		75-125	**30**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 21-26 QC Batch ID: WG1095778-3 WG1095778-4 QC Sample: L1808072-26 Client ID: 9179-030818-1440												
Arsenic, Total	16.9	12.4	37.1	**163**	Q	28.2	91		75-125	**27**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-01
Client ID: 9179-030818-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 00:01
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	45.7		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-02
Client ID: 9179-030818-1050
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 10:50
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	56.8		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-03
Client ID: 9179-030818-1055
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 10:55
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	45.5		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-04
Client ID: 9179-030818-1100
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 11:00
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	65.1		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-05
Client ID: 9179-030818-1105
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 11:05
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.8		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-06
Client ID: 9179-030818-1110
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 11:10
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.2		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-07
Client ID: 9179-030818-1115
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 11:15
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.9		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-08
Client ID: 9179-030818-1120
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 11:20
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	53.2		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-09
Client ID: 9179-030818-1125
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 11:25
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	55.4		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-10
Client ID: 9179-030818-1250
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 12:50
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.9		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-11
Client ID: 9179-030818-1255
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 12:55
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.3		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-12
Client ID: 9179-030818-1300
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 13:00
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.0		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-13
Client ID: 9179-030818-1305
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 13:05
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.0		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-14
Client ID: 9179-030818-1310
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 13:10
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.7		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-15
Client ID: 9179-030818-1315
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 13:15
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.6		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-16
Client ID: 9179-030818-1320
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 13:20
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	58.8		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-17
Client ID: 9179-030818-1325
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 13:25
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.8		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-18
Client ID: 9179-030818-0002
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 00:02
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.6		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-19
Client ID: 9179-030818-1400
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 14:00
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.8		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-20
Client ID: 9179-030818-1405
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 14:05
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.5		%	0.100	NA	1	-	03/09/18 01:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-21
Client ID: 9179-030818-1410
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 14:10
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.0		%	0.100	NA	1	-	03/09/18 03:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-22
Client ID: 9179-030818-1415
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 14:15
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.2		%	0.100	NA	1	-	03/09/18 03:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-23
Client ID: 9179-030818-1420
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 14:20
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.7		%	0.100	NA	1	-	03/09/18 03:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-24
Client ID: 9179-030818-1425
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 14:25
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	03/09/18 03:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-25
Client ID: 9179-030818-1435
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 14:35
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.3		%	0.100	NA	1	-	03/09/18 03:16	121,2540G	SH

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

SAMPLE RESULTS

Lab ID: L1808072-26
Client ID: 9179-030818-1440
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/08/18 14:40
Date Received: 03/08/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.6		%	0.100	NA	1	-	03/09/18 03:16	121,2540G	SH

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG1095743-1 QC Sample: L1808072-09 Client ID: 9179-030818-1125						
Solids, Total	55.4	50.2	%	10		20
General Chemistry - Westborough Lab Associated sample(s): 21-26 QC Batch ID: WG1095751-1 QC Sample: L1808072-26 Client ID: 9179-030818-1440						
Solids, Total	75.6	76.7	%	1		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808072-01A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		AS-TI(180)
L1808072-01B	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1808072-02A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		AS-TI(180)
L1808072-02B	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1808072-03A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		AS-TI(180)
L1808072-03B	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1808072-04A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		AS-TI(180)
L1808072-04B	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1808072-05A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		AS-TI(180)
L1808072-05B	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1808072-06A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		AS-TI(180)
L1808072-06B	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1808072-07A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		AS-TI(180)
L1808072-07B	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1808072-08A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		AS-TI(180)
L1808072-08B	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1808072-09A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		AS-TI(180)
L1808072-09A1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		AS-TI(180)
L1808072-09A2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		AS-TI(180)
L1808072-09B	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1808072-09B1	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1808072-09B2	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808072-10A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		AS-TI(180)
L1808072-10B	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1808072-11A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		AS-TI(180)
L1808072-11B	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1808072-12A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		AS-TI(180)
L1808072-12B	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1808072-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-13B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808072-14A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-14B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808072-15A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-15B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808072-16A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-16B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808072-17A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-17B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808072-18A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-18B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808072-19A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-19B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808072-20A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-20B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808072-21A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-21B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808072-22A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-22B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808072-23A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-23B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808072
Report Date: 03/09/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808072-24A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-24B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808072-25A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-25B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808072-26A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-26A1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-26A2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808072-26B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808072-26B1	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808072-26B2	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1808072
Project Number:	128598-003	**Report Date:**	03/09/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1808072
Project Number:	128598-003	**Report Date:**	03/09/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1808072
Project Number:	128598-003	**Report Date:**	03/09/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers: Brewer, ME 04412 — Portsmouth, NH 03801 — Mahwah, NJ 07430 — Albany, NY 12205 — Tonawanda, NY 14150 — Holmes, PA 19043

Page 1 of 3

Date Rec'd in Lab: 03/08/18

ALPHA Job #: L1808072

H&A Information
- H&A Client: Racer
- H&A Address: 6500 Rockslide Rd
- Cleveland OH 44131
- H&A Phone: 216-706-1314
- H&A Fax:
- H&A Email: dputz@haleyaldrich.com

Project Information
- Project Name: Racer
- Project Location: Ewing Township Industrial Land, Ewing, NJ
- Project #: 128598-003
- (Use Project name as Project #) ☐
- Project Manager: Dan Putz
- ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
- Standard ☐ — Due Date:
- Rush (only if pre approved) ☑ — # of Days: 1

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables
- ☑ Email ☐ Fax
- ☐ EQuIS (1 File) ☑ EQuIS (4 File)
- ☐ Other:

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Billing Information
- ☐ Same as Client Info
- PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.

Disposal Facility:
- ☐ NJ ☐ NY
- ☐ Other:

ANALYSIS

Sample Filtration
- ☐ Done
- ☐ Lab to do

Preservation
- ☐ Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Total Bottles	Sample Specific Comments
01808072-01	9179-030818-0001	3/8/18	0001	SO	DG	/			X							Duplicate Sample
02	9179-030818-1050		1050			0.5			X							
03	9179-030818-1055		1055			1.0			X							
04	9179-030818-1100		1100			0.5			X							
05	9179-030818-1105		1105			1.0			X							
06	9179-030818-1110		1110			0.5			X							
07	9179-030818-1115		1115			1.0			X							
08	9179-030818-1120		1120			0.5			X							
09	9179-030818-1125	↓	1125	↓	↓	1.0			X							MS/MSD
10	9179-030818-1250	3/8/18	1250	SO	DG	0.5			X							

Container Type: A, P

Preservative:

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/8/18 @1600	AAL-3/8/18	16:00
AAL-3/8/18	18:40		
		Daniel B. Matt	3/8/18 23:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ALPHA ANALYTICAL

CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 2 of 3

Date Rec'd in Lab: 03/08/18

ALPHA Job #: L1808072

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
08072-11	9179-030618-1255	3/8/18	1255	SO	DG	2.0			X				
12	9179-030618-1300		1300			0.5			X				
13	9179-030618-1305		1305			2.0			X				
14	9179-030618-1310		1310			0.5			X				
15	9179-030618-1315		1315			2.0			X				
16	9179-030618-1320		1320			0.5			X				
17	9179-030618-1325		1325			2.0			X				
18	9179-030618-0002		0002						X				Duplicate Sample
19	9179-030618-1400		1400			0.5			X				
20	9179-030618-1405	3/8/18	1405	SO	DG	2.0			X				

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/5/18@1600	AAL	3/8/18 16:00
AAL	3/8/18 18:40		
		Danielle Mott	3/8/18 22:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

ALPHA ANALYTICAL
Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288
Service Centers: Brewer, ME 04412; Portsmouth, NH 03801; Mahwah, NJ 07430; Albany, NY 12205; Tonawanda, NY 14150; Holmes, PA 19043

Page 3 of 3

Date Rec'd in Lab: 03/08/18

ALPHA Job #: L1808672

H&A Information
- H&A Client: Racer
- H&A Address: 6500 Rockslide Rd
- Cleveland OH 44131
- H&A Phone: 216-706-1314
- H&A Fax:
- H&A Email: dputz@haleyaldrich.com

Project Information
- Project Name: Racer
- Project Location: Ewing Township Industrial Land, Ewing, NJ
- Project #: 128598-003
- (Use Project name as Project #) ☐
- Project Manager: Dan Putz
- ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
- Standard ☐ Due Date:
- Rush (only if pre approved) ☑ # of Days: 1

Deliverables
- ☑ Email ☐ Fax
- ☐ EQuIS (1 File) ☑ EQuIS (4 File)
- ☐ Other:

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Billing Information
- ☐ Same as Client Info
- PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
- ☐ NJ ☐ NY
- ☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
- ☐ Done
- ☐ Lab to do

Preservation
- ☐ Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
0807 62-21	9179-030818-1410	3/8/18	1410	SO	DG	0.5			X				
22	9179-030818-1415	"	1415	"	"	2.0			X				
23	9179-030818-1420	"	1420	"	"	0.5			X				
24	9179-030818-1425	"	1425	"	"	2.0			X				
25	9179-030818-1435	"	1435	"	"	0.5			X				
26	9179-030818-1440	3/8/18	1440	SO	DG	2.0			X				MS/MSD

Container Type
Preservative

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/8/18 1440		
	3/8/18 18:40		3/8/18 16:00
			3/8/18 22:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1808289
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	03/12/18

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1808289-01	9179-030918-0905	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 09:05	03/09/18
L1808289-02	9179-030918-0907	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 09:07	03/09/18
L1808289-03	9179-030918-0910	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 09:10	03/09/18
L1808289-04	9179-030918-0912	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 09:12	03/09/18
L1808289-05	9179-030918-0915	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 09:15	03/09/18
L1808289-06	9179-030918-0917	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 09:17	03/09/18
L1808289-07	9179-030918-0920	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 09:20	03/09/18
L1808289-08	9179-030918-0922	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 09:22	03/09/18
L1808289-09	9179-030918-0950	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 09:50	03/09/18
L1808289-10	9179-030918-0955	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 09:55	03/09/18
L1808289-11	9179-030918-1000	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 10:00	03/09/18
L1808289-12	9179-030918-1005	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 10:05	03/09/18
L1808289-13	9179-030918-1010	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 10:10	03/09/18
L1808289-14	9179-030918-1015	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 10:15	03/09/18
L1808289-15	9179-030918-1020	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 10:20	03/09/18
L1808289-16	9179-030918-1025	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/09/18 10:25	03/09/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	RACER	**Lab Number:**	L1808289
Project Number:	128598-003	**Report Date:**	03/12/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Total Metals

In reference to question 4:

The WG1096144-3 MS recovery for arsenic (0%), performed on L1808289-01 (9179-030918-0905), does not apply because the sample concentration is greater than four times the spike amount added.

The WG1096144-4 Laboratory Duplicate RPD for arsenic (84%), performed on L1808289-01 (9179-030918-0905), is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Amita Naik

Title: Technical Director/Representative Date: 03/12/18

METALS

Project Name:	RACER	**Lab Number:**	L1808289
Project Number:	128598-003	**Report Date:**	03/12/18

SAMPLE RESULTS

Lab ID:	L1808289-01	Date Collected:	03/09/18 09:05
Client ID:	9179-030918-0905	Date Received:	03/09/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	78%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	148		mg/kg	0.497	0.103	1	03/10/18 07:00	03/12/18 10:15	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1808289
Project Number:	128598-003	**Report Date:**	03/12/18

SAMPLE RESULTS

Lab ID:	L1808289-02	Date Collected:	03/09/18 09:07
Client ID:	9179-030918-0907	Date Received:	03/09/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	46.3		mg/kg	0.525	0.109	1	03/10/18 07:00	03/12/18 10:33	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1808289
Project Number:	128598-003	**Report Date:**	03/12/18

SAMPLE RESULTS

Lab ID:	L1808289-03	Date Collected:	03/09/18 09:10
Client ID:	9179-030918-0910	Date Received:	03/09/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	68%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	94.1		mg/kg	0.580	0.121	1	03/10/18 07:00	03/12/18 10:37	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-04
Client ID: 9179-030918-0912
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 70%

Date Collected: 03/09/18 09:12
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	107		mg/kg	0.569	0.118	1	03/10/18 07:00	03/12/18 10:42	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-05
Client ID: 9179-030918-0915
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 76%

Date Collected: 03/09/18 09:15
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	188		mg/kg	0.504	0.105	1	03/10/18 07:00	03/12/18 10:46	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-06
Client ID: 9179-030918-0917
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 61%

Date Collected: 03/09/18 09:17
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	243		mg/kg	0.645	0.134	1	03/10/18 07:00	03/12/18 11:00	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-07
Client ID: 9179-030918-0920
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 62%

Date Collected: 03/09/18 09:20
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	152		mg/kg	0.630	0.131	1	03/10/18 07:00	03/12/18 11:04	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-08
Client ID: 9179-030918-0922
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 66%

Date Collected: 03/09/18 09:22
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	106		mg/kg	0.592	0.123	1	03/10/18 07:00	03/12/18 11:09	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-09
Client ID: 9179-030918-0950
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 71%

Date Collected: 03/09/18 09:50
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	83.3		mg/kg	0.535	0.111	1	03/10/18 07:00	03/12/18 11:13	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-10
Client ID: 9179-030918-0955
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 65%

Date Collected: 03/09/18 09:55
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	82.8		mg/kg	0.586	0.122	1	03/10/18 07:00	03/12/18 11:18	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-11
Client ID: 9179-030918-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 74%

Date Collected: 03/09/18 10:00
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.25		mg/kg	0.514	0.107	1	03/10/18 07:00	03/12/18 11:22	EPA 3050B	1,6010C	LC

Project Name: RACER
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Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-12
Client ID: 9179-030918-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 59%

Date Collected: 03/09/18 10:05
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	300		mg/kg	0.657	0.137	1	03/10/18 07:00	03/12/18 11:27	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-13
Client ID: 9179-030918-1010
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 56%

Date Collected: 03/09/18 10:10
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	100		mg/kg	0.694	0.144	1	03/10/18 07:00	03/12/18 11:31	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1808289
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SAMPLE RESULTS

Lab ID:	L1808289-14	Date Collected:	03/09/18 10:15
Client ID:	9179-030918-1015	Date Received:	03/09/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	63%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	76.2		mg/kg	0.609	0.127	1	03/10/18 07:00	03/12/18 11:36	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-15
Client ID: 9179-030918-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 51%

Date Collected: 03/09/18 10:20
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	94.7		mg/kg	0.768	0.160	1	03/10/18 07:00	03/12/18 11:40	EPA 3050B	1,6010C	LC

Project Name: RACER
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Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-16
Client ID: 9179-030918-1025
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 74%

Date Collected: 03/09/18 10:25
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	6.05		mg/kg	0.507	0.105	1	03/10/18 07:00	03/12/18 11:53	EPA 3050B	1,6010C	LC

Project Name: RACER
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Lab Number: L1808289
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Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-16 Batch: WG1096144-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/10/18 07:00	03/12/18 10:06	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1808289

Report Date: 03/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-16 Batch: WG1096144-2 SRM Lot Number: D098-540								
Arsenic, Total	100		-		83-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-16 QC Batch ID: WG1096144-3 QC Sample: L1808289-01 Client ID: 9179-030918-0905												
Arsenic, Total	148.	12	93.3	**0**	Q	-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-16 QC Batch ID: WG1096144-4 QC Sample: L1808289-01 Client ID: 9179-030918-0905						
Arsenic, Total	148.	60.8	mg/kg	**84**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-01
Client ID: 9179-030918-0905
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 09:05
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.0		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-02
Client ID: 9179-030918-0907
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 09:07
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.7		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-03
Client ID: 9179-030918-0910
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 09:10
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.4		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-04
Client ID: 9179-030918-0912
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 09:12
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.7		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-05
Client ID: 9179-030918-0915
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 09:15
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.6		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-06
Client ID: 9179-030918-0917
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 09:17
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	61.3		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-07
Client ID: 9179-030918-0920
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 09:20
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	61.7		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-08
Client ID: 9179-030918-0922
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 09:22
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.0		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-09
Client ID: 9179-030918-0950
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 09:50
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.8		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-10
Client ID: 9179-030918-0955
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 09:55
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.9		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-11
Client ID: 9179-030918-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 10:00
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.0		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-12
Client ID: 9179-030918-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 10:05
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	59.2		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-13
Client ID: 9179-030918-1010
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 10:10
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	56.3		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-14
Client ID: 9179-030918-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 10:15
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	62.6		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-15
Client ID: 9179-030918-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 10:20
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	50.8		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1808289-16
Client ID: 9179-030918-1025
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/09/18 10:25
Date Received: 03/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.2		%	0.100	NA	1	-	03/10/18 07:15	121,2540G	RI

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-16 QC Batch ID: WG1096155-1 QC Sample: L1808289-01 Client ID: 9179-030918-0905						
Solids, Total	78.0	77.4	%	1		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808289-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-01B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-02B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-03B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-04B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-05B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-06B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-07B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-08B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-09B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-10B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-11A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-11B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808289
Report Date: 03/12/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808289-12B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-13B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-14A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-14B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-15A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-15B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1808289-16A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		AS-TI(180)
L1808289-16B	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1808289
Project Number:	128598-003	**Report Date:**	03/12/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1808289
Project Number:	128598-003	**Report Date:**	03/12/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1808289
Project Number:	128598-003	**Report Date:**	03/12/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

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8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 1 of 2

Date Rec'd in Lab: 3/9/18

ALPHA Job #: L1808289

Project Information
- Project Name: Racer
- Project Location: Ewing Township Industrial Land, Ewing, NJ
- Project #: 128598-003
- (Use Project name as Project #) ☐
- Project Manager: Dan Putz
- ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
- Standard ☐ Due Date:
- Rush (only if pre approved) ☑ # of Days: 1

Deliverables
- ☑ Email ☐ Fax
- ☐ EQuIS (1 File) ☑ EQuIS (4 File)
- ☐ Other:

Billing Information
- ☐ Same as Client Info
- PO #

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

H&A Information
- H&A Client: Racer
- H&A Address: 6500 Rockslide Rd
- Cleveland OH 44131
- H&A Phone: 216-706-1314
- H&A Fax:
- H&A Email: dputz@haleyaldrich.com

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Sample Specific Comments	Total Bottles
L8085289-01	9179-030918-0905	3/9/18	0905	SO	DG	0.5			X							
02	9179-030918-0907		0907			1.0			X							
03	9179-030918-0910		0910			0.5			X							
04	9179-030918-0912		0912			1.0			X							
05	9179-030918-0915		0915			0.5			X							
06	9179-030918-0917		0917			1.0			X							
07	9179-030918-0920		0920			0.5			X							
08	9179-030918-0922		0922			1.0			X							
09	9179-030918-0950		0950			0.5			X							
10	9179-030918-0955	3/9/18	0955	SO	DG	1.0			X							
	Container Type								A							
	Preservative															

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/9/18 1705	AAL	3/9/18 1705
	3/9/18 1970	AAL	3/9/18 1970
	3/9/18 2245		3/9/18 2245

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ALPHA ANALYTICAL

CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 2 of 2

Date Rec'd in Lab: 3/9/18

ALPHA Job # L1808289

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project # 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Sample Specific Comments	Total Bottles
08289-11	9179-030918-1000	3/9/18	1000	SO	DG	0.5			X				
12	9179-030918-1005		1005			1.0			X				
13	9179-030918-1010		1010			0.5			X				
14	9179-030918-1015		1015			1.0			X				
15	9179-030918-1020		1020			0.5			X				
16	9179-030918-1025	3/9/18	1025	SO	DG	1.0			X				

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/9/18 1705		3/9/18 1705
	3/9/18 1935		
			3/9/18 2345

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1808465
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	03/14/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1808465-01	9179-031218-0840	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 08:40	03/12/18
L1808465-02	9179-031218-0845	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 08:45	03/12/18
L1808465-03	9179-031218-0850	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 08:50	03/12/18
L1808465-04	9179-031218-0855	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 08:55	03/12/18
L1808465-05	9179-031218-0900	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 09:00	03/12/18
L1808465-06	9179-031218-0905	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 09:05	03/12/18
L1808465-07	9179-031218-0910	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 09:10	03/12/18
L1808465-08	9179-031218-0915	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 09:15	03/12/18
L1808465-09	9179-031218-1000	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 10:00	03/12/18
L1808465-10	9179-031218-1005	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 10:05	03/12/18
L1808465-11	9179-031218-1010	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 10:10	03/12/18
L1808465-12	9179-031218-1015	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 10:15	03/12/18
L1808465-13	9179-031218-1020	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 10:20	03/12/18
L1808465-14	9179-031218-1025	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 10:25	03/12/18
L1808465-15	9179-031218-1030	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 10:30	03/12/18
L1808465-16	9179-031218-1035	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 10:35	03/12/18
L1808465-17	9179-031218-0001	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 00:01	03/12/18
L1808465-18	9179-031218-1320	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 13:20	03/12/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1808465-19	9179-031218-1325	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 13:25	03/12/18
L1808465-20	9179-031218-1330	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 13:30	03/12/18
L1808465-21	9179-031218-1335	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 13:35	03/12/18
L1808465-22	9179-031218-1340	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 13:40	03/12/18
L1808465-23	9179-031218-1345	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 13:45	03/12/18
L1808465-24	9179-031218-1350	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 13:50	03/12/18
L1808465-25	9179-031218-1355	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 13:55	03/12/18
L1808465-26	9179-031218-0002	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 00:02	03/12/18
L1808465-27	9179-031218-1500	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 15:00	03/12/18
L1808465-28	9179-031218-1505	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 15:05	03/12/18
L1808465-29	9179-031218-1510	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 15:10	03/12/18
L1808465-30	9179-031218-1515	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 15:15	03/12/18
L1808465-31	9179-031218-1520	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 15:20	03/12/18
L1808465-32	9179-031218-1525	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 15:25	03/12/18
L1808465-33	9179-031218-1530	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 15:30	03/12/18
L1808465-34	9179-031218-1535	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/12/18 15:35	03/12/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

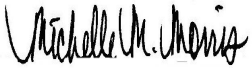
Total Metals

In reference to question 4:

The WG1096820-3 MS recovery, performed on L1808465-21 (9179-031218-1335), is outside the acceptance criteria for chromium (65%). A post digestion spike was performed and yielded an unacceptable recovery of 77%. This has been attributed to sample matrix.

The WG1096821-4 MSD recovery, performed on L1808465-34 (9179-031218-1535), is outside the acceptance criteria for nickel (70%). A post digestion spike was performed and yielded an unacceptable recovery of 64%. This has been attributed to sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Michelle M. Morris

Title: Technical Director/Representative Date: 03/14/18

METALS

Project Name:	RACER	**Lab Number:**	L1808465
Project Number:	128598-003	**Report Date:**	03/14/18

SAMPLE RESULTS

Lab ID:	L1808465-01	Date Collected:	03/12/18 08:40
Client ID:	9179-031218-0840	Date Received:	03/12/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	78%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	13.6		mg/kg	0.503	0.104	1	03/14/18 10:00	03/14/18 12:29	EPA 3050B	1,6010C	LC

Project Name:	RACER	**Lab Number:**	L1808465
Project Number:	128598-003	**Report Date:**	03/14/18

SAMPLE RESULTS

Lab ID:	L1808465-02	Date Collected:	03/12/18 08:45
Client ID:	9179-031218-0845	Date Received:	03/12/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	78%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.89		mg/kg	0.491	0.102	1	03/14/18 10:00	03/14/18 12:33	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-03
Client ID: 9179-031218-0850
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 70%

Date Collected: 03/12/18 08:50
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	34.2		mg/kg	0.562	0.117	1	03/14/18 10:00	03/14/18 12:37	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-04
Client ID: 9179-031218-0855
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/12/18 08:55
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.72		mg/kg	0.479	0.100	1	03/14/18 10:00	03/14/18 12:55	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-05
Client ID: 9179-031218-0900
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 75%

Date Collected: 03/12/18 09:00
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	13.3		mg/kg	0.515	0.107	1	03/14/18 10:00	03/14/18 13:00	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-06
Client ID: 9179-031218-0905
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/12/18 09:05
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	6.08		mg/kg	0.496	0.103	1	03/14/18 10:00	03/14/18 13:04	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-07
Client ID: 9179-031218-0910
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 76%

Date Collected: 03/12/18 09:10
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	6.90		mg/kg	0.516	0.107	1	03/14/18 10:00	03/14/18 13:09	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-08
Client ID: 9179-031218-0915
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/12/18 09:15
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	9.28		mg/kg	0.474	0.099	1	03/14/18 10:00	03/14/18 13:13	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-09
Client ID: 9179-031218-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 74%

Date Collected: 03/12/18 10:00
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	29.6		mg/kg	0.527	0.051	1	03/14/18 10:00	03/14/18 13:18	EPA 3050B	1,6010C	LC
Nickel, Total	281		mg/kg	1.32	0.128	1	03/14/18 10:00	03/14/18 13:18	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-10
Client ID: 9179-031218-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 88%

Date Collected: 03/12/18 10:05
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	14.4		mg/kg	0.440	0.042	1	03/14/18 10:00	03/14/18 13:22	EPA 3050B	1,6010C	LC
Nickel, Total	48.8		mg/kg	1.10	0.107	1	03/14/18 10:00	03/14/18 13:22	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-11
Client ID: 9179-031218-1010
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/12/18 10:10
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	19.6		mg/kg	0.480	0.046	1	03/14/18 10:00	03/14/18 13:26	EPA 3050B	1,6010C	LC
Nickel, Total	88.1		mg/kg	1.20	0.116	1	03/14/18 10:00	03/14/18 13:26	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-12
Client ID: 9179-031218-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 75%

Date Collected: 03/12/18 10:15
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	44.9		mg/kg	0.518	0.050	1	03/14/18 10:00	03/14/18 13:30	EPA 3050B	1,6010C	LC
Nickel, Total	385		mg/kg	1.30	0.125	1	03/14/18 10:00	03/14/18 13:30	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-13
Client ID: 9179-031218-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 21%

Date Collected: 03/12/18 10:20
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	14800		mg/kg	18.8	1.80	10	03/14/18 10:00	03/14/18 14:12	EPA 3050B	1,6010C	LC
Nickel, Total	32600		mg/kg	46.9	4.54	10	03/14/18 10:00	03/14/18 14:12	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-14
Client ID: 9179-031218-1025
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 24%

Date Collected: 03/12/18 10:25
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	15000		mg/kg	16.3	1.56	10	03/14/18 10:00	03/14/18 14:16	EPA 3050B	1,6010C	LC
Nickel, Total	28200		mg/kg	40.7	3.94	10	03/14/18 10:00	03/14/18 14:16	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-15
Client ID: 9179-031218-1030
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 18%

Date Collected: 03/12/18 10:30
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	24200		mg/kg	21.2	2.04	10	03/14/18 10:00	03/14/18 14:21	EPA 3050B	1,6010C	LC
Nickel, Total	40100		mg/kg	53.1	5.14	10	03/14/18 10:00	03/14/18 14:21	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-16
Client ID: 9179-031218-1035
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 23%

Date Collected: 03/12/18 10:35
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	9310		mg/kg	16.3	1.57	10	03/14/18 10:00	03/14/18 14:25	EPA 3050B	1,6010C	LC
Nickel, Total	30800		mg/kg	40.9	3.96	10	03/14/18 10:00	03/14/18 14:25	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-17
Client ID: 9179-031218-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/12/18 00:01
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	16.6		mg/kg	0.477	0.046	1	03/14/18 10:00	03/14/18 13:59	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-18
Client ID: 9179-031218-1320
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/12/18 13:20
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	25.3		mg/kg	0.480	0.046	1	03/14/18 10:00	03/14/18 14:03	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-19
Client ID: 9179-031218-1325
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/12/18 13:25
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	25.0		mg/kg	0.479	0.046	1	03/14/18 10:00	03/14/18 14:08	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-20
Client ID: 9179-031218-1330
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/12/18 13:30
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	136		mg/kg	0.481	0.046	1	03/14/18 10:00	03/14/18 14:54	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-21
Client ID: 9179-031218-1335
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/12/18 13:35
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	30.9		mg/kg	0.485	0.047	1	03/14/18 10:00	03/14/18 12:10	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-22
Client ID: 9179-031218-1340
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/12/18 13:40
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	28.9		mg/kg	0.475	0.046	1	03/14/18 10:00	03/14/18 14:59	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-23
Client ID: 9179-031218-1345
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 78%

Date Collected: 03/12/18 13:45
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	26.3		mg/kg	0.502	0.048	1	03/14/18 10:00	03/14/18 15:03	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-24
Client ID: 9179-031218-1350
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 77%

Date Collected: 03/12/18 13:50
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	38.7		mg/kg	0.507	0.049	1	03/14/18 10:00	03/14/18 15:58	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-25
Client ID: 9179-031218-1355
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/12/18 13:55
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	22.6		mg/kg	0.468	0.045	1	03/14/18 10:00	03/14/18 16:03	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-26
Client ID: 9179-031218-0002
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/12/18 00:02
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	316		mg/kg	1.18	0.114	1	03/14/18 10:00	03/14/18 16:07	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-27
Client ID: 9179-031218-1500
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 88%

Date Collected: 03/12/18 15:00
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	486		mg/kg	1.12	0.108	1	03/14/18 10:00	03/14/18 16:12	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-28
Client ID: 9179-031218-1505
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/12/18 15:05
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	798		mg/kg	1.18	0.114	1	03/14/18 10:00	03/14/18 16:17	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-29
Client ID: 9179-031218-1510
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 87%

Date Collected: 03/12/18 15:10
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	272		mg/kg	1.14	0.110	1	03/14/18 10:00	03/14/18 16:22	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-30
Client ID: 9179-031218-1515
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 85%

Date Collected: 03/12/18 15:15
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	902		mg/kg	1.13	0.110	1	03/14/18 10:00	03/14/18 16:26	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-31
Client ID: 9179-031218-1520
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 88%

Date Collected: 03/12/18 15:20
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	15.7		mg/kg	1.07	0.103	1	03/14/18 10:00	03/14/18 16:31	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-32
Client ID: 9179-031218-1525
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 87%

Date Collected: 03/12/18 15:25
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	62.7		mg/kg	1.14	0.110	1	03/14/18 10:00	03/14/18 16:36	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-33
Client ID: 9179-031218-1530
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 87%

Date Collected: 03/12/18 15:30
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	152		mg/kg	1.09	0.105	1	03/14/18 10:00	03/14/18 16:40	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-34
Client ID: 9179-031218-1535
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 85%

Date Collected: 03/12/18 15:35
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	29.4		mg/kg	1.12	0.108	1	03/14/18 10:00	03/14/18 14:35	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-19,21 Batch: WG1096820-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/14/18 10:00	03/14/18 12:02	1,6010C	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/14/18 10:00	03/14/18 12:02	1,6010C	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/14/18 10:00	03/14/18 12:02	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 20,22-34 Batch: WG1096821-1										
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/14/18 10:00	03/14/18 14:26	1,6010C	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/14/18 10:00	03/14/18 14:26	1,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1808465

Report Date: 03/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-19,21 Batch: WG1096820-2 SRM Lot Number: D098-540								
Arsenic, Total	96		-		83-117	-		
Chromium, Total	91		-		83-119	-		
Nickel, Total	91		-		82-117	-		
Total Metals - Mansfield Lab Associated sample(s): 20,22-34 Batch: WG1096821-2 SRM Lot Number: D098-540								
Chromium, Total	93		-		83-119	-		
Nickel, Total	104		-		82-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-19,21 QC Batch ID: WG1096820-3 WG1096820-4 QC Sample: L1808465-21 Client ID: 9179-031218-1335												
Arsenic, Total	6.49	11.6	16.8	89		16.3	87		75-125	3		20
Chromium, Total	30.9	19.3	43.4	**65**	Q	45.8	80		75-125	5		20
Nickel, Total	10.2	48.2	47.0	76		46.0	76		75-125	2		20
Total Metals - Mansfield Lab Associated sample(s): 20,22-34 QC Batch ID: WG1096821-3 WG1096821-4 QC Sample: L1808465-34 Client ID: 9179-031218-1535												
Chromium, Total	9.95	18	25.3	85		25.3	84		75-125	0		20
Nickel, Total	29.4	45	65.2	80		61.1	**70**	Q	75-125	6		20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-01
Client ID: 9179-031218-0840
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 08:40
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.3		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-02
Client ID: 9179-031218-0845
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 08:45
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.4		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-03
Client ID: 9179-031218-0850
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 08:50
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.8		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-04
Client ID: 9179-031218-0855
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 08:55
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-05
Client ID: 9179-031218-0900
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 09:00
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.3		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-06
Client ID: 9179-031218-0905
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 09:05
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.2		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-07
Client ID: 9179-031218-0910
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 09:10
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.0		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-08
Client ID: 9179-031218-0915
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 09:15
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.1		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-09
Client ID: 9179-031218-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 10:00
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.9		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-10
Client ID: 9179-031218-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 10:05
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-11
Client ID: 9179-031218-1010
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 10:10
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.2		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-12
Client ID: 9179-031218-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 10:15
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.4		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-13
Client ID: 9179-031218-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 10:20
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	20.8		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-14
Client ID: 9179-031218-1025
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 10:25
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	24.2		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-15
Client ID: 9179-031218-1030
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 10:30
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	17.9		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-16
Client ID: 9179-031218-1035
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 10:35
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	23.1		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-17
Client ID: 9179-031218-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 00:01
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.6		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-18
Client ID: 9179-031218-1320
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 13:20
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.3		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-19
Client ID: 9179-031218-1325
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 13:25
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.6		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-20
Client ID: 9179-031218-1330
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 13:30
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.9		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-21
Client ID: 9179-031218-1335
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 13:35
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	03/13/18 02:16	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-22
Client ID: 9179-031218-1340
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 13:40
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.4		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-23
Client ID: 9179-031218-1345
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 13:45
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.1		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-24
Client ID: 9179-031218-1350
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 13:50
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.4		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-25
Client ID: 9179-031218-1355
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 13:55
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.7		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-26
Client ID: 9179-031218-0002
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 00:02
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.7		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-27
Client ID: 9179-031218-1500
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 15:00
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-28
Client ID: 9179-031218-1505
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 15:05
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-29
Client ID: 9179-031218-1510
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 15:10
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-30
Client ID: 9179-031218-1515
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 15:15
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-31
Client ID: 9179-031218-1520
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 15:20
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-32
Client ID: 9179-031218-1525
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 15:25
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-33
Client ID: 9179-031218-1530
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 15:30
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808465
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808465-34
Client ID: 9179-031218-1535
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/12/18 15:35
Date Received: 03/12/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	03/13/18 02:53	121,2540G	FN

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-18,21 QC Batch ID: WG1096726-1 QC Sample: L1808465-21 Client ID: 9179-031218-1335						
Solids, Total	80.9	80.9	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 19-20,22-34 QC Batch ID: WG1096728-1 QC Sample: L1808465-34 Client ID: 9179-031218-1535						
Solids, Total	85.2	81.3	%	5		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808465-01A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-01B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		AS-TI(180)
L1808465-02A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-02B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		AS-TI(180)
L1808465-03A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-03B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		AS-TI(180)
L1808465-04A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-04B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		AS-TI(180)
L1808465-05A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-05B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		AS-TI(180)
L1808465-06A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-06B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		AS-TI(180)
L1808465-07A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-07B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		AS-TI(180)
L1808465-08A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-08B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		AS-TI(180)
L1808465-09A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-09B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		CR-TI(180),NI-TI(180)
L1808465-10A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-10B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		CR-TI(180),NI-TI(180)
L1808465-11A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-11B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		CR-TI(180),NI-TI(180)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808465-12A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-12B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		CR-TI(180),NI-TI(180)
L1808465-13A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-13B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		CR-TI(180),NI-TI(180)
L1808465-14A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-14B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		CR-TI(180),NI-TI(180)
L1808465-15A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-15B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		CR-TI(180),NI-TI(180)
L1808465-16A	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L1808465-16B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.7	Y	Absent		CR-TI(180),NI-TI(180)
L1808465-17A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-17B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		CR-TI(180)
L1808465-18A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-18B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		CR-TI(180)
L1808465-19A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-19B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		CR-TI(180)
L1808465-20A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-20B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		CR-TI(180)
L1808465-21A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-21A1	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-21A2	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-21B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		CR-TI(180)
L1808465-21B1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		CR-TI(180)
L1808465-21B2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		CR-TI(180)
L1808465-22A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-22B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		CR-TI(180)
L1808465-23A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-23B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		CR-TI(180)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808465
Report Date: 03/14/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808465-24A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-24B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		CR-TI(180)
L1808465-25A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-25B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		CR-TI(180)
L1808465-26A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-26B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		NI-TI(180)
L1808465-27A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-27B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		NI-TI(180)
L1808465-28A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-28B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		NI-TI(180)
L1808465-29A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-29B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		NI-TI(180)
L1808465-30A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-30B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		NI-TI(180)
L1808465-31A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-31B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		NI-TI(180)
L1808465-32A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-32B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		NI-TI(180)
L1808465-33A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-33B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		NI-TI(180)
L1808465-34A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-34A1	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-34A2	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1808465-34B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		NI-TI(180)
L1808465-34B1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		NI-TI(180)
L1808465-34B2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		NI-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1808465
Project Number:	128598-003	**Report Date:**	03/14/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1808465
Project Number:	128598-003	**Report Date:**	03/14/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1808465
Project Number:	128598-003	**Report Date:**	03/14/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

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Date Rec'd in Lab: 3/12/18

ALPHA Job #: L1808465

H&A Information
- H&A Client: Racer
- H&A Address: 6500 Rockslide Rd
- Cleveland OH 44131
- H&A Phone: 216-706-1314
- H&A Fax:
- H&A Email: dputz@haleyaldrich.com

Project Information
- Project Name: Racer
- Project Location: Ewing Township Industrial Land, Ewing, NJ
- Project #: 128598-003
- (Use Project name as Project #) ☐
- Project Manager: Dan Putz
- ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
- Standard ☐ Due Date:
- Rush (only if pre approved) ☑ # of Days: 1

Deliverables
- ☑ Email ☐ Fax
- ☐ EQuIS (1 File) ☑ EQuIS (4 File)
- ☐ Other:

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Billing Information
- ☐ Same as Client Info
- PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
- ☐ NJ ☐ NY
- ☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
- ☐ Done
- ☐ Lab to do

Preservation
- ☐ Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Total # Bottles	Sample Specific Comments
~~0846501~~	9179-031218-0840	3/12/18	0840	SO	DG	0.5			X							
0846502	9179-031218-0845		0845			2.5			X							
-03	9179-031218-0850		0850			0.5			X							
-04	9179-031218-0855		0855			2.5			X							
-05	9179-031218-0900		0900			0.5			X							
-06	9179-031218-0905		0905			2.5			X							
-07	9179-031218-0910		0910			0.5			X							
-08	9179-031218-0915		0915			2.5			X							
-09	9179-031218-1000		1000			3.0		X		X						
-10	9179-031218-1005	3/12/18	1005	SO	DG	3.0		X		X						
Container Type								A	A	A						
Preservative																

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/12/18 @ 1700		3/12/18 16:35
	3/12/18 1840		3/12/18 2221

(9/2016)

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

ALPHA ANALYTICAL

CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

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Date Rec'd in Lab 3/12/18

ALPHA Job # L1808465 ~~L1808485~~

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project # 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Total Bottles	Sample Specific Comments
~~08485~~-11	9179-031218-1010	3/12/18	1010	SO	DG	3.0		X		X						
08465-12	9179-031218-1015		1015			3.0		X		X						
-13	9179-031218-1020		1020			7.0 (5.0)		X		X						Depth = 5.0
-14	9179-031218-1025		1025			5.0		X		X						
-15	9179-031218-1030		1030			5.0		X		X						
-16	9179-031218-1035		1035			5.0		X		X						
-17	9179-031218-0001		0001			/		X								Duplicate Sample
-18	9179-031218-1320		1320			7.8		X								
-19	9179-031218-1325	↓	1325	↓		7.8		X								
-20	9179-031218-1330	3/12/18	1330	SO	DG	7.8		X								
						Container Type		A		A						
						Preservative										

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/12/18 - 1700		3/12/18 1635
	3/12/18 1844		3/12/18 1844
	3/12/18 2220		3/12/18 2220

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 3 of 4

Date Rec'd in Lab: 3/12/18

ALPHA Job #: L1808465

L1808465 CA

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Sample Specific Comments	Total Bottles
~~08485~~-21	9179-031218-1335	3/12/18	1335	SO	DG	7.8		X							MS/MSD	
08485-22	9179-031218-1340		1340			11.0		X								
-23	9179-031218-1345		1345			11.0		X								
-24	9179-031218-1350		1350			11.0		X								
-25	9179-031218-1355		1355			11.0		X								
-26	9179-031218-0002		0002			/				X					Duplicate Sample	
-27	9179-031218-1500		1500			4.0				X						
-28	9179-031218-1505		1505			4.0				X						
-29	9179-031218-1510		1510			4.0				X						
-30	9179-031218-1515	3/12/18	1515	SO	DG	4.0				X						
	Container Type							A		A						
	Preservative															

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/12/18 @ 1700		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page (2) 4 of 4

Date Rec'd in Lab: 3/12/18

ALPHA Job #: L1808465 (L1808485)

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Sample Specific Comments	Total Bottles
08485-31	9179-031218-1520	3/12/18	1520	SO	DO	5.5				X						
08465-32	9179-031218-1525		1525			5.5				X						
-33	9179-031218-1530		1530			5.5				X						
-34	9179-031218-1535	3/12/18	1535	DO	DO	5.5				X					MS/MSD	

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/12/18 @1720		3/12/18 16:57
	3/12/18 1844		3/12/18 1844
	3/12/18 2225		3/12/18 2225

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Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1808569
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	03/14/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1808569-01	9179-031318-0001	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 00:01	03/13/18
L1808569-02	9179-031318-0900	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 09:00	03/13/18
L1808569-03	9179-031318-0905	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 09:05	03/13/18
L1808569-04	9179-031318-0910	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 09:10	03/13/18
L1808569-05	9179-031318-0915	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 09:15	03/13/18
L1808569-06	9179-031318-0920	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 09:20	03/13/18
L1808569-07	9179-031318-0925	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 09:25	03/13/18
L1808569-08	9179-031318-0930	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 09:30	03/13/18
L1808569-09	9179-031318-0935	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 09:35	03/13/18
L1808569-10	9179-031318-0940	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 09:40	03/13/18
L1808569-11	9179-031318-0945	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 09:45	03/13/18
L1808569-12	9179-031318-0950	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 09:50	03/13/18
L1808569-13	9179-031318-0955	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 09:55	03/13/18
L1808569-14	9179-031318-1000	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 10:00	03/13/18
L1808569-15	9179-031318-1005	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 10:05	03/13/18
L1808569-16	9179-031318-1010	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 10:10	03/13/18
L1808569-17	9179-031318-1015	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 10:15	03/13/18
L1808569-18	9179-031318-0002	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 00:02	03/13/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1808569-19	9179-031318-1340	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 13:40	03/13/18
L1808569-20	9179-031318-1345	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 13:45	03/13/18
L1808569-21	9179-031318-1350	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 13:50	03/13/18
L1808569-22	9179-031318-1355	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 13:55	03/13/18
L1808569-23	9179-031318-1415	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 14:15	03/13/18
L1808569-24	9179-031318-1420	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 14:20	03/13/18
L1808569-25	9179-031318-1425	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 14:25	03/13/18
L1808569-26	9179-031318-1430	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 14:30	03/13/18
L1808569-27	9179-031318-1500	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 15:00	03/13/18
L1808569-28	9179-031318-1505	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 15:05	03/13/18
L1808569-29	9179-031318-1510	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 15:10	03/13/18
L1808569-30	9179-031318-1515	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 15:15	03/13/18
L1808569-31	9179-031318-1520	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 15:20	03/13/18
L1808569-32	9179-031318-1525	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 15:25	03/13/18
L1808569-33	9179-031318-1530	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 15:30	03/13/18
L1808569-34	9179-031318-1535	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/13/18 15:35	03/13/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: RACER **Lab Number:** L1808569
Project Number: 128598-003 **Report Date:** 03/14/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Sample Receipt

L1808569-34: A sample identified as "9179-031318-1535" was listed on the Chain of Custody, but not received (the container was empty). This was verified by the client.

Total Metals

In reference to question 4:

The WG1096848-3/-4 MS/MSD recoveries for nickel (0%/923%), performed on L1808569-26 (9179-031318-1430), do not apply because the sample concentration is greater than four times the spike amount added.

The WG1096848-3/-4 MS/MSD RPD, performed on L1808569-26 (9179-031318-1430), is above the acceptance criteria for nickel (26%).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 03/14/18

METALS

Project Name:	RACER	**Lab Number:**	L1808569
Project Number:	128598-003	**Report Date:**	03/14/18

SAMPLE RESULTS

Lab ID:	L1808569-01	Date Collected:	03/13/18 00:01
Client ID:	9179-031318-0001	Date Received:	03/13/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	83%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	177		mg/kg	0.476	0.099	1	03/14/18 10:00	03/14/18 14:33	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-02
Client ID: 9179-031318-0900
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/13/18 09:00
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	339		mg/kg	0.495	0.103	1	03/14/18 10:00	03/14/18 14:37	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-03
Client ID: 9179-031318-0905
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/13/18 09:05
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	6.16		mg/kg	0.491	0.102	1	03/14/18 10:00	03/14/18 14:42	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-04
Client ID: 9179-031318-0910
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/13/18 09:10
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	99.8		mg/kg	0.490	0.102	1	03/14/18 10:00	03/14/18 15:10	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-05
Client ID: 9179-031318-0915
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/13/18 09:15
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	47.2		mg/kg	0.470	0.098	1	03/14/18 10:00	03/14/18 15:14	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-06
Client ID: 9179-031318-0920
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/13/18 09:20
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	315		mg/kg	0.487	0.101	1	03/14/18 10:00	03/14/18 15:19	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1808569
Project Number:	128598-003	**Report Date:**	03/14/18

SAMPLE RESULTS

Lab ID:	L1808569-07	Date Collected:	03/13/18 09:25
Client ID:	9179-031318-0925	Date Received:	03/13/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	31.7		mg/kg	0.468	0.097	1	03/14/18 10:00	03/14/18 15:24	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1808569
Project Number:	128598-003	**Report Date:**	03/14/18

SAMPLE RESULTS

Lab ID:	L1808569-08	Date Collected:	03/13/18 09:30
Client ID:	9179-031318-0930	Date Received:	03/13/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	203		mg/kg	0.477	0.099	1	03/14/18 10:00	03/14/18 15:28	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-09
Client ID: 9179-031318-0935
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/13/18 09:35
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.34		mg/kg	0.457	0.095	1	03/14/18 10:00	03/14/18 14:14	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-10
Client ID: 9179-031318-0940
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/13/18 09:40
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	99.2		mg/kg	0.496	0.103	1	03/14/18 10:00	03/14/18 15:33	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-11
Client ID: 9179-031318-0945
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/13/18 09:45
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	52.1		mg/kg	0.477	0.099	1	03/14/18 10:00	03/14/18 15:38	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-12
Client ID: 9179-031318-0950
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/13/18 09:50
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	25.4		mg/kg	0.469	0.098	1	03/14/18 10:00	03/14/18 15:42	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-13
Client ID: 9179-031318-0955
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/13/18 09:55
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	9.10		mg/kg	0.499	0.104	1	03/14/18 10:00	03/14/18 16:05	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1808569
Project Number:	128598-003	**Report Date:**	03/14/18

SAMPLE RESULTS

Lab ID:	L1808569-14	Date Collected:	03/13/18 10:00
Client ID:	9179-031318-1000	Date Received:	03/13/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	333		mg/kg	0.473	0.098	1	03/14/18 10:00	03/14/18 16:10	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-15
Client ID: 9179-031318-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/13/18 10:05
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	65.2		mg/kg	0.472	0.098	1	03/14/18 10:00	03/14/18 16:14	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-16
Client ID: 9179-031318-1010
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 76%

Date Collected: 03/13/18 10:10
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	518		mg/kg	0.502	0.104	1	03/14/18 10:00	03/14/18 16:19	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-17
Client ID: 9179-031318-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/13/18 10:15
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	38.2		mg/kg	0.464	0.097	1	03/14/18 10:00	03/14/18 16:23	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-18
Client ID: 9179-031318-0002
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/13/18 00:02
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	2400		mg/kg	1.15	0.112	1	03/14/18 10:00	03/14/18 16:28	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-19
Client ID: 9179-031318-1340
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 84%

Date Collected: 03/13/18 13:40
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	1030		mg/kg	1.19	0.115	1	03/14/18 10:00	03/14/18 16:32	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1808569
Project Number:	128598-003	**Report Date:**	03/14/18

SAMPLE RESULTS

Lab ID:	L1808569-20	Date Collected:	03/13/18 13:45
Client ID:	9179-031318-1345	Date Received:	03/13/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	668		mg/kg	1.09	0.106	1	03/14/18 10:00	03/14/18 16:37	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-21
Client ID: 9179-031318-1350
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/13/18 13:50
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	343		mg/kg	1.20	0.116	1	03/14/18 10:00	03/14/18 13:54	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-22
Client ID: 9179-031318-1355
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/13/18 13:55
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	328		mg/kg	1.19	0.115	1	03/14/18 10:00	03/14/18 13:59	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-23
Client ID: 9179-031318-1415
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 75%

Date Collected: 03/13/18 14:15
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	1060		mg/kg	1.29	0.124	1	03/14/18 10:00	03/14/18 14:03	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-24
Client ID: 9179-031318-1420
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/13/18 14:20
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	19.6		mg/kg	1.23	0.120	1	03/14/18 10:00	03/14/18 14:08	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1808569
Project Number:	128598-003	**Report Date:**	03/14/18

SAMPLE RESULTS

Lab ID:	L1808569-25	Date Collected:	03/13/18 14:25
Client ID:	9179-031318-1425	Date Received:	03/13/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	83%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	4210		mg/kg	1.20	0.116	1	03/14/18 10:00	03/14/18 14:12	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-26
Client ID: 9179-031318-1430
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/13/18 14:30
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Nickel, Total	1670		mg/kg	1.23	0.119	1	03/14/18 10:00	03/14/18 13:18	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-27
Client ID: 9179-031318-1500
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 75%

Date Collected: 03/13/18 15:00
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	138		mg/kg	0.508	0.049	1	03/14/18 10:00	03/14/18 14:17	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-28
Client ID: 9179-031318-1505
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 86%

Date Collected: 03/13/18 15:05
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	92.1		mg/kg	0.456	0.044	1	03/14/18 10:00	03/14/18 14:22	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-29
Client ID: 9179-031318-1510
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 84%

Date Collected: 03/13/18 15:10
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	12200		mg/kg	4.63	0.445	10	03/14/18 10:00	03/14/18 14:49	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-30
Client ID: 9179-031318-1515
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 87%

Date Collected: 03/13/18 15:15
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1480		mg/kg	0.450	0.043	1	03/14/18 10:00	03/14/18 14:54	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-31
Client ID: 9179-031318-1520
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 85%

Date Collected: 03/13/18 15:20
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	569		mg/kg	0.468	0.045	1	03/14/18 10:00	03/14/18 14:58	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-32
Client ID: 9179-031318-1525
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 85%

Date Collected: 03/13/18 15:25
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	251		mg/kg	0.469	0.045	1	03/14/18 10:00	03/14/18 15:03	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-33
Client ID: 9179-031318-1530
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/13/18 15:30
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	45.1		mg/kg	0.453	0.044	1	03/14/18 10:00	03/14/18 15:07	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-20 Batch: WG1096846-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/14/18 10:00	03/14/18 12:19	1,6010C	PS
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/14/18 10:00	03/14/18 12:19	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 21-33 Batch: WG1096848-1										
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/14/18 10:00	03/14/18 13:05	1,6010C	PS
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/14/18 10:00	03/14/18 13:05	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1808569

Report Date: 03/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 Batch: WG1096846-2 SRM Lot Number: D098-540								
Arsenic, Total	102		-		83-117	-		
Nickel, Total	90		-		82-117	-		
Total Metals - Mansfield Lab Associated sample(s): 21-33 Batch: WG1096848-2 SRM Lot Number: D098-540								
Chromium, Total	92		-		83-119	-		
Nickel, Total	92		-		82-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1096846-3 WG1096846-4 QC Sample: L1808569-09 Client ID: 9179-031318-0935												
Arsenic, Total	3.34	11.4	13.7	91		13.1	90		75-125	4		20
Nickel, Total	8.56	47.3	39.1	**64**	Q	37.8	**65**	Q	75-125	3		20
Total Metals - Mansfield Lab Associated sample(s): 21-33 QC Batch ID: WG1096848-3 WG1096848-4 QC Sample: L1808569-26 Client ID: 9179-031318-1430												
Chromium, Total	14.7	19.1	31.0	85		31.6	85		75-125	2		20
Nickel, Total	1670	47.8	1640	**0**	Q	2130	**923**	Q	75-125	**26**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-01
Client ID: 9179-031318-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 00:01
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.1		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-02
Client ID: 9179-031318-0900
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 09:00
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.2		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-03
Client ID: 9179-031318-0905
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 09:05
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.4		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-04
Client ID: 9179-031318-0910
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 09:10
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.5		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-05
Client ID: 9179-031318-0915
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 09:15
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.0		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-06
Client ID: 9179-031318-0920
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 09:20
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.9		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-07
Client ID: 9179-031318-0925
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 09:25
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.4		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-08
Client ID: 9179-031318-0930
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 09:30
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-09
Client ID: 9179-031318-0935
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 09:35
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.2		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-10
Client ID: 9179-031318-0940
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 09:40
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.7		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-11
Client ID: 9179-031318-0945
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 09:45
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-12
Client ID: 9179-031318-0950
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 09:50
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-13
Client ID: 9179-031318-0955
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 09:55
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.2		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-14
Client ID: 9179-031318-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 10:00
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.3		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-15
Client ID: 9179-031318-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 10:05
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.7		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-16
Client ID: 9179-031318-1010
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 10:10
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.6		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-17
Client ID: 9179-031318-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 10:15
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.6		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-18
Client ID: 9179-031318-0002
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 00:02
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-19
Client ID: 9179-031318-1340
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 13:40
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.7		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-20
Client ID: 9179-031318-1345
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 13:45
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	03/14/18 08:47	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-21
Client ID: 9179-031318-1350
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 13:50
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	03/14/18 09:01	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-22
Client ID: 9179-031318-1355
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 13:55
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.9		%	0.100	NA	1	-	03/14/18 09:01	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-23
Client ID: 9179-031318-1415
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 14:15
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.0		%	0.100	NA	1	-	03/14/18 09:01	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-24
Client ID: 9179-031318-1420
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 14:20
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.7		%	0.100	NA	1	-	03/14/18 09:01	121,2540G	RI

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-25
Client ID: 9179-031318-1425
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 14:25
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	03/14/18 09:01	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-26
Client ID: 9179-031318-1430
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 14:30
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.2		%	0.100	NA	1	-	03/14/18 09:01	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-27
Client ID: 9179-031318-1500
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 15:00
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.6		%	0.100	NA	1	-	03/14/18 09:01	121,2540G	RI

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-28
Client ID: 9179-031318-1505
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 15:05
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	03/14/18 09:01	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-29
Client ID: 9179-031318-1510
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 15:10
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.3		%	0.100	NA	1	-	03/14/18 09:01	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-30
Client ID: 9179-031318-1515
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 15:15
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	03/14/18 09:01	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-31
Client ID: 9179-031318-1520
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 15:20
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.6		%	0.100	NA	1	-	03/14/18 09:01	121,2540G	RI

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-32
Client ID: 9179-031318-1525
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 15:25
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	03/14/18 09:01	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

SAMPLE RESULTS

Lab ID: L1808569-33
Client ID: 9179-031318-1530
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/13/18 15:30
Date Received: 03/13/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.6		%	0.100	NA	1	-	03/14/18 09:01	121,2540G	RI

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG1096847-1 QC Sample: L1808569-09 Client ID: 9179-031318-0935						
Solids, Total	83.2	82.7	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 21-33 QC Batch ID: WG1096850-1 QC Sample: L1808569-26 Client ID: 9179-031318-1430						
Solids, Total	80.2	80.0	%	0		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808569-01A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-02A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-03A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-04A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-05A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-06A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-07A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-07B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-08A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-08B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-09A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-09A1	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-09A2	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-09B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-09B1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-09B2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808569-10A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-10B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-11A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-11B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-12A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-12B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-13A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-13B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-14A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-14B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-15A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-15B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-16A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-16B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-17A	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1808569-17B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1808569-18A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		TS(7)
L1808569-18B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		NI-TI(180)
L1808569-19A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-19B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		NI-TI(180)
L1808569-20A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-20B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		NI-TI(180)
L1808569-21A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-21B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		NI-TI(180)
L1808569-22A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-22B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		NI-TI(180)
L1808569-23A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-23B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		NI-TI(180)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808569
Report Date: 03/14/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808569-24A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-24B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		NI-TI(180)
L1808569-25A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-25B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		NI-TI(180)
L1808569-26A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-26A1	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-26A2	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-26B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		NI-TI(180)
L1808569-26B1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		NI-TI(180)
L1808569-27A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-27B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		CR-TI(180)
L1808569-28A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-28B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		CR-TI(180)
L1808569-29A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-29B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		CR-TI(180)
L1808569-30A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-30B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		CR-TI(180)
L1808569-31A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-31B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		CR-TI(180)
L1808569-32A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-32B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		CR-TI(180)
L1808569-33A	Plastic 2oz unpreserved for TS	B	NA		3.6	Y	Absent		TS(7)
L1808569-33B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.6	Y	Absent		CR-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1808569
Project Number:	128598-003	**Report Date:**	03/14/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1808569
Project Number:	128598-003	**Report Date:**	03/14/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1808569
Project Number:	128598-003	**Report Date:**	03/14/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 1 of 4

Date Rec'd in Lab: 3/13/18

ALPHA Job #: L1808569

H&A Information
- H&A Client: Racer
- H&A Address: 6500 Rockslide Rd
- Cleveland OH 44131
- H&A Phone: 216-706-1314
- H&A Fax:
- H&A Email: dputz@haleyaldrich.com

Project Information
- Project Name: Racer
- Project Location: Ewing Township Industrial Land, Ewing, NJ
- Project #: 128598-003
- (Use Project name as Project #) ☐
- Project Manager: Dan Putz
- ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
- Standard ☐ Due Date:
- Rush (only if pre approved) ☑ # of Days: 1

Deliverables
- ☑ Email ☐ Fax
- ☐ EQuIS (1 File) ☑ EQuIS (4 File)
- ☐ Other:

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Billing Information
- ☐ Same as Client Info
- PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
- ☐ NJ ☐ NY
- ☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
- ☐ Done
- ☐ Lab to do

Preservation
- ☐ Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
08569-01	9179-031318-0001	3/13/18	0001	SO	DG	~~0.5~~ 0.5			X				Duplicate
-02	9179-031318-0900		0900			~~0.5~~ 0.5	DG		X				Depth is 0.5
-03	9179-031318-0905		0905			~~2.5~~ 2.5			X				
-04	9179-031318-0910		0910			~~0.5~~ 0.5	DG		X				Depth is 0.5
-05	9179-031318-0915		0915			~~2.5~~ 2.5	DG		X				Depth is 2.5
-06	9179-031318-0920		0920			~~0.5~~ 0.5	DG		X				Depth is 0.5
-07	9179-031318-0925		0925			2.5			X				
-08	9179-031318-0930		0930			~~0.5~~ 0.5	DG		X				Depth is 0.5
-09	9179-031318-0935	″	0935	″	″	2.5			X				MS/MSD
-10	9179-031318-0940	3/13/18	0940	SO	DG	~~0.5~~ 0.5	DG		X				Depth is 0.5
						Container Type			A				
						Preservative							

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	3/13/18 1700	[signature] - AAL	3/13/18 17:00
[signature] - AAL	3/13/18 1855	[signature]	3/13/18 1954
[signature]	3/13/18 2300	[signature]	3/13/18 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers: Brewer, ME 04412 — Portsmouth, NH 03801 — Mahwah, NJ 07430 — Albany, NY 12205 — Tonawanda, NY 14150 — Holmes, PA 19043

Page 2 of 4

Date Rec'd in Lab: 3/13/18

ALPHA Job #: L1808569

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Total Bottles	Sample Specific Comments
085569- 11	9179-031318-0945	3/13/18	0945	SO	DG	2.5			X							
-12	9179-031318-0950		0950			0.5			X							
-13	9179-031318-0955		0955			2.5			X							
-14	9179-031318-1000		1000			0.5			X							
-15	9179-031318-1005		1005			2.5			X							
-16	9179-031318-1010		1010			0.5			X							
-17	9179-031318-1015		1015			2.5			X							
-18	9179-031318-0002		0002							X						Duplicate
-19	9179-031318-1340	↓	1340	↓	↓	Depth	(2) 1.5			X						Depth is 1.5 (2)
-20	9179-031318-1345	3/13/18	1345	SO	DG	3.0				X						

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/13/18 @ 1300		
	3/13/18 18:55		3/13/18 17:00
			3/13/18 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 3 of 4

Date Rec'd in Lab: 3/13/18

ALPHA Job #: L1808569

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
08509-21	9179-031318-1350	3/13/18	1350	SO	OG	1.5				X			
-22	9179-031318-1355	"	1355	"	"	3.0				X			
-23	9179-031318-1400 15	"	1400 15	"	"	1.5				X			sample time is 1415
-24	9179-031318-1420	"	1420	"	"	3.0				X			
-25	9179-031318-1425	"	1425	"	"	1.5				X			
-26	9179-031318-1430	"	1430	"	"	3.0				X			MS/MSD
-27	9179-031318-1500	"	1500	"	"	1.0		X					
-28	9179-031318-1505	"	1505	"	"	2.5		X					
-29	9179-031318-1510	"	1510	"	"	1.0		X					
-30	9179-031318-1515	3/13/18	1515	SO	OG	2.5		X					

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	3/12/18 @ 700		3/13/18 12:00
	3/13/18 1855		3/13/18 KS
	3/13/18 1900		3/13/18 0300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 4 of 4

Date Rec'd in Lab: 3/13/18

ALPHA Job #: L1808569

H&A Information
H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information
Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables
☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
08569-31	9179-031318-1520	3/13/18	1520	SO	DG	1.0		X					
-32	9179-031318-1525	"	1525	"	"	2.5		X					
-33	9179-031318-1530	"	1530	"	"	1.0		X					
-34	9179-031318-1535	3/13/18	1535	SO	DG	2.5		X					

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/13/18 1400/1700		
	3/13/18 18:57		3/13/18 17:40
	3/13/18 1900		3/13/18 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1808687
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	03/15/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808687
Report Date: 03/15/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1808687-01	9179-031418-0001	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/14/18 00:01	03/14/18
L1808687-02	9179-031418-0925	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/14/18 09:25	03/14/18
L1808687-03	9179-031418-0930	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/14/18 09:30	03/14/18
L1808687-04	9179-031418-0935	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/14/18 09:35	03/14/18
L1808687-05	9179-031418-0940	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/14/18 09:40	03/14/18
L1808687-06	9179-031418-0945	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/14/18 09:45	03/14/18
L1808687-07	9179-031418-0950	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/14/18 09:50	03/14/18
L1808687-08	9179-031418-0955	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/14/18 09:55	03/14/18
L1808687-09	9179-031418-1000	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/14/18 10:00	03/14/18
L1808687-10	9179-031418-1030	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/14/18 10:30	03/14/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808687
Report Date: 03/15/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808687
Report Date: 03/15/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

Case Narrative (continued)

Report Revision

March 15, 2018: The Metals analyte list has been amended on L1808687-10 (9179-031418-1030) to include Chromium.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Total Metals

L1808687-10 (9179-031418-1030): The sample has an elevated detection limits due to the dilution required by matrix interferences encountered during analysis.

In reference to question 4:

The WG1097223-3/-4 MS/MSD recoveries, performed on L1808687-09 (9179-031418-1000), are outside the acceptance criteria for arsenic (55%/54%). A post digestion spike was performed and yielded an unacceptable recovery for arsenic (57%). This has been attributed to sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kara Soroko

Title: Technical Director/Representative Date: 03/15/18

METALS

Project Name:	RACER	**Lab Number:**	L1808687
Project Number:	128598-003	**Report Date:**	03/15/18

SAMPLE RESULTS

Lab ID:	L1808687-01	Date Collected:	03/14/18 00:01
Client ID:	9179-031418-0001	Date Received:	03/14/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	74%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.839		mg/kg	0.518	0.108	1	03/15/18 07:00	03/15/18 09:41	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1808687
Project Number:	128598-003	**Report Date:**	03/15/18

SAMPLE RESULTS

Lab ID:	L1808687-02	Date Collected:	03/14/18 09:25
Client ID:	9179-031418-0925	Date Received:	03/14/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.39		mg/kg	0.486	0.101	1	03/15/18 07:00	03/15/18 09:46	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-03
Client ID: 9179-031418-0930
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 86%

Date Collected: 03/14/18 09:30
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	53.4		mg/kg	0.440	0.092	1	03/15/18 07:00	03/15/18 09:51	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-04
Client ID: 9179-031418-0935
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/14/18 09:35
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	47.9		mg/kg	0.459	0.095	1	03/15/18 07:00	03/15/18 09:56	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-05
Client ID: 9179-031418-0940
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%
Date Collected: 03/14/18 09:40
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	7.82		mg/kg	0.475	0.099	1	03/15/18 07:00	03/15/18 10:51	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-06
Client ID: 9179-031418-0945
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 76%

Date Collected: 03/14/18 09:45
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	22.1		mg/kg	0.512	0.106	1	03/15/18 07:00	03/15/18 10:55	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-07
Client ID: 9179-031418-0950
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 75%

Date Collected: 03/14/18 09:50
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.15		mg/kg	0.527	0.110	1	03/15/18 07:00	03/15/18 11:01	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1808687
Project Number:	128598-003	**Report Date:**	03/15/18

SAMPLE RESULTS

Lab ID:	L1808687-08	Date Collected:	03/14/18 09:55
Client ID:	9179-031418-0955	Date Received:	03/14/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	74%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.27		mg/kg	0.535	0.111	1	03/15/18 07:00	03/15/18 11:06	EPA 3050B	1,6010C	PS

Project Name:	RACER	**Lab Number:**	L1808687
Project Number:	128598-003	**Report Date:**	03/15/18

SAMPLE RESULTS

Lab ID:	L1808687-09	Date Collected:	03/14/18 10:00
Client ID:	9179-031418-1000	Date Received:	03/14/18
Sample Location:	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.10		mg/kg	0.515	0.107	1	03/15/18 07:00	03/15/18 09:20	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-10
Client ID: 9179-031418-1030
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 87%
Date Collected: 03/14/18 10:30
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.80	J	mg/kg	2.17	0.452	5	03/15/18 07:00	03/15/18 12:03	EPA 3050B	1,6010C	PS
Chromium, Total	22.6		mg/kg	2.17	0.209	5	03/15/18 07:00	03/15/18 12:03	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1097223-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/15/18 07:00	03/15/18 09:11	1,6010C	PS
Chromium, Total	0.044	J	mg/kg	0.400	0.038	1	03/15/18 07:00	03/15/18 09:11	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1808687

Report Date: 03/15/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1097223-2 SRM Lot Number: D098-540								
Arsenic, Total	98		-		83-117	-		
Chromium, Total	91		-		83-119	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808687
Report Date: 03/15/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 031418-1000	QC Batch ID: WG1097223-3					WG1097223-4			QC Sample: L1808687-09		Client ID: 9179-	
Arsenic, Total	1.10	12.4	7.99	**55**	Q	7.82	**54**	Q	75-125	2		20
Chromium, Total	31.9	20.8	52.5	99		51.8	95		75-125	1		20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-01
Client ID: 9179-031418-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/14/18 00:01
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.8		%	0.100	NA	1	-	03/15/18 01:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-02
Client ID: 9179-031418-0925
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/14/18 09:25
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.8		%	0.100	NA	1	-	03/15/18 01:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-03
Client ID: 9179-031418-0930
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/14/18 09:30
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.6		%	0.100	NA	1	-	03/15/18 01:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-04
Client ID: 9179-031418-0935
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/14/18 09:35
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.2		%	0.100	NA	1	-	03/15/18 01:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-05
Client ID: 9179-031418-0940
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/14/18 09:40
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	03/15/18 01:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-06
Client ID: 9179-031418-0945
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/14/18 09:45
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.6		%	0.100	NA	1	-	03/15/18 01:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-07
Client ID: 9179-031418-0950
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/14/18 09:50
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.8		%	0.100	NA	1	-	03/15/18 01:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-08
Client ID: 9179-031418-0955
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/14/18 09:55
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.1		%	0.100	NA	1	-	03/15/18 01:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-09
Client ID: 9179-031418-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/14/18 10:00
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.6		%	0.100	NA	1	-	03/15/18 01:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003
Lab Number: L1808687
Report Date: 03/15/18

SAMPLE RESULTS

Lab ID: L1808687-10
Client ID: 9179-031418-1030
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil

Date Collected: 03/14/18 10:30
Date Received: 03/14/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	03/15/18 01:49	121,2540G	FN

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808687
Report Date: 03/15/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1097189-1 QC Sample: L1808687-09 Client ID: 9179-031418-1000						
Solids, Total	74.6	74.1	%	1		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808687
Report Date: 03/15/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808687-01A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808687-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808687-02A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808687-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808687-03A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808687-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808687-04A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808687-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808687-05A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808687-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808687-06A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808687-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808687-07A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808687-07B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808687-08A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808687-08B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808687-09A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808687-09A1	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808687-09A2	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1808687-09B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808687-09B1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808687-09B2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1808687-10A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1808687
Report Date: 03/15/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808687-10B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1808687
Project Number:	128598-003	**Report Date:**	03/15/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1808687
Project Number:	128598-003	**Report Date:**	03/15/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1808687
Project Number:	128598-003	**Report Date:**	03/15/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

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Tonawanda, NY 14150 Holmes, PA 19043

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Date Rec'd in Lab: 3/14/18

ALPHA Job #: L1808687

H&A Information
H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information
Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables
☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS
Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
08687 -01	9179-031418-0001	3/14/18	0001	SO	DG	/			X				
02	9179-031418-0925	"	0925	"	"	4.0			X				
03	9179-031418-0930	"	0930	"	"	~~6.0~~	DG		X				Depth is 4.0
04	9179-031418-0935	"	0935	"	"	4.0			X				
05	9179-031418-0940	"	0940	"	"	4.0			X				
06	9179-031418-0945	"	0945	"	"	6.0			X				
07	9179-031418-0950	"	0950	"	"	6.0			X				
08	9179-031418-0955	"	0955	"	"	6.0			X				
09	9179-031418-1000	↓	1000	SO	↓	6.0			X				MS/MSD
10	9179-031418-1030	3/14/18	1030	SO	DG	3.0			X				
	Container Type								A				
	Preservative												

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/14/18 @		
Comm · AAL	3/14/18 1825		3/14/18 1825
			3/14/18 2220

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1809335
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	03/20/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1809335-01	9179-031918-1130	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 11:30	03/19/18
L1809335-02	9179-031918-1135	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 11:35	03/19/18
L1809335-03	9179-031918-1140	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 11:40	03/19/18
L1809335-04	9179-031918-1145	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 11:45	03/19/18
L1809335-05	9179-031918-1150	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 11:50	03/19/18
L1809335-06	9179-031918-1155	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 11:55	03/19/18
L1809335-07	9179-031918-1440	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 14:40	03/19/18
L1809335-08	9179-031918-1445	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 14:45	03/19/18
L1809335-09	9179-031918-1450	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 14:50	03/19/18
L1809335-10	9179-031918-1455	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 14:55	03/19/18
L1809335-11	9179-031918-1500	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 15:00	03/19/18
L1809335-12	9179-031918-1505	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 15:05	03/19/18
L1809335-13	9179-031918-1510	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 15:10	03/19/18
L1809335-14	9179-031918-1515	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 15:15	03/19/18
L1809335-15	9179-031918-1520	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 15:20	03/19/18
L1809335-16	9179-031918-1525	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 15:25	03/19/18
L1809335-17	9179-031918-1530	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 15:30	03/19/18
L1809335-18	9179-031918-1535	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/19/18 15:35	03/19/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	RACER	**Lab Number:**	L1809335
Project Number:	128598-003	**Report Date:**	03/20/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1809335-10: The collection date on the chain of custody was 3/9/18; however, the collection date on the container label was 3/19/18. At the client's request, the collection date/time is reported as 3/19/18.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Total Metals

In reference to question 4:

The WG1098654-3 MS recovery for chromium (137%), performed on L1809335-01, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1098654-4 Laboratory Duplicate RPD for chromium (23%), performed on L1809335-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 03/20/18

METALS

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-01
Client ID: 9179-031918-1130
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 74%

Date Collected: 03/19/18 11:30
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	230		mg/kg	0.522	0.050	1	03/20/18 06:15	03/20/18 10:44	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-02
Client ID: 9179-031918-1135
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/19/18 11:35
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	242		mg/kg	0.472	0.045	1	03/20/18 06:15	03/20/18 11:11	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-03
Client ID: 9179-031918-1140
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 85%

Date Collected: 03/19/18 11:40
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	76.1		mg/kg	0.450	0.043	1	03/20/18 06:15	03/20/18 11:28	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-04
Client ID: 9179-031918-1145
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 84%

Date Collected: 03/19/18 11:45
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	132		mg/kg	0.452	0.043	1	03/20/18 06:15	03/20/18 11:33	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-05
Client ID: 9179-031918-1150
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 86%

Date Collected: 03/19/18 11:50
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	131		mg/kg	0.442	0.042	1	03/20/18 06:15	03/20/18 11:37	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-06
Client ID: 9179-031918-1155
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/19/18 11:55
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	117		mg/kg	0.474	0.045	1	03/20/18 06:15	03/20/18 11:42	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-07
Client ID: 9179-031918-1440
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/19/18 14:40
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	16.7		mg/kg	0.480	0.100	1	03/20/18 06:15	03/20/18 11:47	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-08
Client ID: 9179-031918-1445
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 77%

Date Collected: 03/19/18 14:45
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.41		mg/kg	0.489	0.102	1	03/20/18 06:15	03/20/18 11:51	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-09
Client ID: 9179-031918-1450
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 86%

Date Collected: 03/19/18 14:50
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	49.5		mg/kg	0.453	0.094	1	03/20/18 06:15	03/20/18 11:56	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-10
Client ID: 9179-031918-1455
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/19/18 14:55
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	27.6		mg/kg	4.72	0.981	10	03/20/18 06:15	03/20/18 12:51	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-11
Client ID: 9179-031918-1500
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 84%

Date Collected: 03/19/18 15:00
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	80.5		mg/kg	0.468	0.097	1	03/20/18 06:15	03/20/18 12:05	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-12
Client ID: 9179-031918-1505
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/19/18 15:05
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	52.1		mg/kg	0.463	0.096	1	03/20/18 06:15	03/20/18 12:09	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-13
Client ID: 9179-031918-1510
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 72%

Date Collected: 03/19/18 15:10
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	35.3		mg/kg	0.540	0.112	1	03/20/18 06:15	03/20/18 12:24	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-14
Client ID: 9179-031918-1515
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/19/18 15:15
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	7.41		mg/kg	0.484	0.101	1	03/20/18 06:15	03/20/18 12:28	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-15
Client ID: 9179-031918-1520
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/19/18 15:20
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	20.4		mg/kg	0.485	0.101	1	03/20/18 06:15	03/20/18 12:33	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-16
Client ID: 9179-031918-1525
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 73%

Date Collected: 03/19/18 15:25
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.79		mg/kg	0.521	0.108	1	03/20/18 06:15	03/20/18 12:37	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-17
Client ID: 9179-031918-1530
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/19/18 15:30
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	17.9		mg/kg	0.480	0.100	1	03/20/18 06:15	03/20/18 12:41	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809335
Project Number: 128598-003
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-18
Client ID: 9179-031918-1535
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 78%

Date Collected: 03/19/18 15:35
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	14.2		mg/kg	0.487	0.101	1	03/20/18 06:15	03/20/18 12:46	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-18 Batch: WG1098654-1										
Arsenic, Total	0.148	J	mg/kg	0.400	0.083	1	03/20/18 06:15	03/20/18 10:36	1,6010C	LC
Chromium, Total	0.068	J	mg/kg	0.400	0.038	1	03/20/18 06:15	03/20/18 10:36	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1809335

Report Date: 03/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-18 Batch: WG1098654-2 SRM Lot Number: D098-540								
Arsenic, Total	94		-		83-117	-		
Chromium, Total	86		-		83-119	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-18 QC Batch ID: WG1098654-3 QC Sample: L1809335-01 Client ID: 9179-031918-1130												
Arsenic, Total	5.63	12.7	15.9	81		-	-		75-125	-		20
Chromium, Total	230.	21.1	259	**137**	Q	-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-18 QC Batch ID: WG1098654-4 QC Sample: L1809335-01 Client ID: 9179-031918-1130						
Chromium, Total	230.	289	mg/kg	**23**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-01
Client ID: 9179-031918-1130
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/19/18 11:30
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.6		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-02
Client ID: 9179-031918-1135
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/19/18 11:35
Date Received: 03/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-03
Client ID: 9179-031918-1140
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/19/18 11:40
Date Received: 03/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.7		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-04
Client ID: 9179-031918-1145
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/19/18 11:45
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.7		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-05
Client ID: 9179-031918-1150
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/19/18 11:50
Date Received: 03/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-06
Client ID: 9179-031918-1155
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/19/18 11:55
Date Received: 03/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.6		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-07
Client ID: 9179-031918-1440
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/19/18 14:40
Date Received: 03/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.1		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-08
Client ID: 9179-031918-1445
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/19/18 14:45
Date Received: 03/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.4		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-09
Client ID: 9179-031918-1450
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/19/18 14:50
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-10
Client ID: 9179-031918-1455
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/19/18 14:55
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-11
Client ID: 9179-031918-1500
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/19/18 15:00
Date Received: 03/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-12
Client ID: 9179-031918-1505
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/19/18 15:05
Date Received: 03/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.2		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-13
Client ID: 9179-031918-1510
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/19/18 15:10
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.3		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-14
Client ID: 9179-031918-1515
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/19/18 15:15
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.1		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-15
Client ID: 9179-031918-1520
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/19/18 15:20
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.5		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-16
Client ID: 9179-031918-1525
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/19/18 15:25
Date Received: 03/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.3		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-17
Client ID: 9179-031918-1530
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/19/18 15:30
Date Received: 03/19/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

SAMPLE RESULTS

Lab ID: L1809335-18
Client ID: 9179-031918-1535
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/19/18 15:35
Date Received: 03/19/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.0		%	0.100	NA	1	-	03/20/18 01:07	121,2540G	FN

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-18 QC Batch ID: WG1098602-1 QC Sample: L1809335-01 Client ID: 9179-031918-1130						
Solids, Total	73.6	73.3	%	0		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1809335-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		CR-TI(180)
L1809335-01B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		CR-TI(180)
L1809335-02B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		CR-TI(180)
L1809335-03B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		CR-TI(180)
L1809335-04B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		CR-TI(180)
L1809335-05B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		CR-TI(180)
L1809335-06B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1809335-07B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1809335-08B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1809335-09B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1809335-10B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-11A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1809335-11B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-12A	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809335
Report Date: 03/20/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1809335-12B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1809335-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1809335-13B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-14A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1809335-14B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-15A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1809335-15B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-16A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1809335-16B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-17A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1809335-17B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1809335-18A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		AS-TI(180)
L1809335-18B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1809335
Project Number:	128598-003	**Report Date:**	03/20/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1809335
Project Number:	128598-003	**Report Date:**	03/20/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1809335
Project Number:	128598-003	**Report Date:**	03/20/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 1 of 2

Date Rec'd in Lab: 3/19/18

ALPHA Job #: L1809335

H&A Information
H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information
Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables
☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Total Bottles	Sample Specific Comments
09335-01	9179-031918-1130	3/19/18	1130	SO	DG	1.0		X								
-02	9179-031918-1135		1135			1.5		X								
-03	9179-031918-1140		1140			1.0		X								
-04	9179-031918-1145		1145			1.5		X								
-05	9179-031918-1150		1150			1.0		X								
-06	9179-031918-1155		1155			1.5		X								
-07	9179-031918-1440		1440			1.0			X							
-08	9179-031918-1445		1445			1.5			X							
-09	9179-031918-1450	↓	1450	↓	↓	1.0			X							
-10	9179-031918-1455	3/9/18	1455	SO	DG	1.5			X							

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	3/19@1700	Paul Mazella	3/19/18 1605
Paul Mazella	3/19/18 1905		3/19/18 1905
	3/19/18 2250		3/19/18 2250

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-19-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 2 of 2

Date Rec'd in Lab: 3/19/18

ALPHA Job #: L1809335

H&A Information
H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information
Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables
☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Sample Specific Comments	Total Bottles
09335 .11	9179-031918-1500	3/19/18	1500	SO	DG	1.0			X							
.12	9179-031918-1505		1505			1.5			X							
.13	9179-031918-1510		1510			1.0			X							
.14	9179-031918-1515		1515			1.5			X							
.15	9179-031918-1520		1520			1.0			X							
.16	9179-031918-1525		1525			1.5			X							
.17	9179-031918-1530	↓	1530	↓	↓	1.0			X							
.18	9179-031918-1535	3/19/18	1535	SO	DG	1.5			X							

Container Type: A
Preservative:

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/19/18 1700	Paul Mariella	3/19/18 1605
Paul Mariella	3/19/18 1905		3/19/18 2250

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-16-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1809609
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	03/21/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1809609-01	9179-032018-0001	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 00:01	03/20/18
L1809609-02	9179-032018-0920	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 09:20	03/20/18
L1809609-03	9179-032018-0915	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 09:15	03/20/18
L1809609-04	9179-032018-0925	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 09:25	03/20/18
L1809609-05	9179-032018-0930	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 09:30	03/20/18
L1809609-06	9179-032018-0935	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 09:35	03/20/18
L1809609-07	9179-032018-0940	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 09:40	03/20/18
L1809609-08	9179-032018-1000	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 10:00	03/20/18
L1809609-09	9179-032018-1005	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 10:05	03/20/18
L1809609-10	9179-032018-1010	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 10:10	03/20/18
L1809609-11	9179-032018-1015	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 10:15	03/20/18
L1809609-12	9179-032018-1020	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 10:20	03/20/18
L1809609-13	9179-032018-1025	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 10:25	03/20/18
L1809609-14	9179-032018-1030	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 10:30	03/20/18
L1809609-15	9179-032018-1035	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 10:35	03/20/18
L1809609-16	9179-032018-1430	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 14:30	03/20/18
L1809609-17	9179-032018-1435	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 14:35	03/20/18
L1809609-18	9179-032018-1440	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 14:40	03/20/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1809609-19	9179-032018-1445	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 14:45	03/20/18
L1809609-20	9179-032018-1450	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 14:50	03/20/18
L1809609-21	9179-032018-R1	STONE	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 16:00	03/20/18
L1809609-22	9179-032018-R2	STONE	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 16:05	03/20/18
L1809609-23	9179-032018-R3	STONE	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 16:15	03/20/18
L1809609-24	9179-032018-R4	STONE	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/20/18 16:25	03/20/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	NO
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	YES
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	RACER	**Lab Number:**	L1809609
Project Number:	128598-003	**Report Date:**	03/21/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Sample Receipt

In reference to question 1:

L1809609-21 through -24 (9179-032018-R1, 9179-032018-R2, 9179-032018-R3, 9179-032018-R4): Due to insufficient sample volume received to perform the Total Solids analysis, the results are not reported on a dry-weight basis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative Date: 03/21/18

METALS

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-01
Client ID: 9179-032018-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 72%

Date Collected: 03/20/18 00:01
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.66		mg/kg	0.537	0.112	1	03/21/18 07:30	03/21/18 09:50	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-02
Client ID: 9179-032018-0920
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/20/18 09:20
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	11.6		mg/kg	0.484	0.101	1	03/21/18 07:30	03/21/18 09:55	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-03
Client ID: 9179-032018-0915
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/20/18 09:15
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	67.6		mg/kg	0.463	0.096	1	03/21/18 07:30	03/21/18 09:59	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-04
Client ID: 9179-032018-0925
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 64%

Date Collected: 03/20/18 09:25
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	9.62		mg/kg	0.616	0.128	1	03/21/18 07:30	03/21/18 09:36	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-05
Client ID: 9179-032018-0930
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/20/18 09:30
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	19.2		mg/kg	0.480	0.100	1	03/21/18 07:30	03/21/18 10:22	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-06
Client ID: 9179-032018-0935
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 70%

Date Collected: 03/20/18 09:35
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	17.9		mg/kg	0.556	0.116	1	03/21/18 07:30	03/21/18 10:27	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-07
Client ID: 9179-032018-0940
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/20/18 09:40
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	20.2		mg/kg	0.478	0.100	1	03/21/18 07:30	03/21/18 10:32	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-08
Client ID: 9179-032018-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/20/18 10:00
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	9.40		mg/kg	0.484	0.101	1	03/21/18 07:30	03/21/18 10:36	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-09
Client ID: 9179-032018-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 84%

Date Collected: 03/20/18 10:05
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.17		mg/kg	0.462	0.096	1	03/21/18 07:30	03/21/18 10:41	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-10
Client ID: 9179-032018-1010
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/20/18 10:10
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	333		mg/kg	0.472	0.098	1	03/21/18 07:30	03/21/18 10:45	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-11
Client ID: 9179-032018-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/20/18 10:15
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	374		mg/kg	0.476	0.099	1	03/21/18 07:30	03/21/18 10:50	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-12
Client ID: 9179-032018-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 86%

Date Collected: 03/20/18 10:20
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	6.98		mg/kg	0.453	0.094	1	03/21/18 07:30	03/21/18 10:55	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-13
Client ID: 9179-032018-1025
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/20/18 10:25
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.71		mg/kg	0.463	0.096	1	03/21/18 07:30	03/21/18 10:59	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-14
Client ID: 9179-032018-1030
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 77%

Date Collected: 03/20/18 10:30
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	123		mg/kg	0.497	0.103	1	03/21/18 07:30	03/21/18 11:04	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-15
Client ID: 9179-032018-1035
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/20/18 10:35
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	443		mg/kg	0.466	0.097	1	03/21/18 07:30	03/21/18 11:20	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-16
Client ID: 9179-032018-1430
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 76%

Date Collected: 03/20/18 14:30
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	431		mg/kg	0.514	0.107	1	03/21/18 07:30	03/21/18 11:24	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-17
Client ID: 9179-032018-1435
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/20/18 14:35
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	156		mg/kg	0.493	0.103	1	03/21/18 07:30	03/21/18 11:29	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-18
Client ID: 9179-032018-1440
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/20/18 14:40
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	236		mg/kg	0.473	0.098	1	03/21/18 07:30	03/21/18 11:33	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-19
Client ID: 9179-032018-1445
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/20/18 14:45
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	308		mg/kg	0.474	0.099	1	03/21/18 07:30	03/21/18 11:38	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-20
Client ID: 9179-032018-1450
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/20/18 14:50
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	10.0		mg/kg	0.459	0.095	1	03/21/18 07:30	03/21/18 11:42	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-21
Client ID: 9179-032018-R1
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Stone
Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Date Collected: 03/20/18 16:00
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.20		mg/kg	0.385	0.080	1	03/21/18 07:30	03/21/18 10:07	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-22
Client ID: 9179-032018-R2
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Stone
Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Date Collected: 03/20/18 16:05
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	14.1		mg/kg	0.375	0.078	1	03/21/18 07:30	03/21/18 10:28	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-23
Client ID: 9179-032018-R3
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Stone
Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Date Collected: 03/20/18 16:15
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	25.6		mg/kg	0.376	0.078	1	03/21/18 07:30	03/21/18 10:32	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1809609
Project Number: 128598-003
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-24
Client ID: 9179-032018-R4
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Stone
Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Date Collected: 03/20/18 16:25
Date Received: 03/20/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	21.0		mg/kg	0.389	0.081	1	03/21/18 07:30	03/21/18 10:36	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1809609
Report Date: 03/21/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-20 Batch: WG1099049-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/21/18 07:30	03/21/18 09:27	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 21-24 Batch: WG1099050-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/21/18 07:30	03/21/18 09:58	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1809609

Report Date: 03/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 Batch: WG1099049-2 SRM Lot Number: D098-540								
Arsenic, Total	98		-		83-117	-		
Total Metals - Mansfield Lab Associated sample(s): 21-24 Batch: WG1099050-2 SRM Lot Number: D098-540								
Arsenic, Total	101		-		83-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1099049-3 WG1099049-4 QC Sample: L1809609-04 Client ID: 9179-032018-0925												
Arsenic, Total	9.62	14.5	24.5	102		23.7	97		75-125	3		20
Total Metals - Mansfield Lab Associated sample(s): 21-24 QC Batch ID: WG1099050-3 QC Sample: L1809609-21 Client ID: 9179-032018-R1												
Arsenic, Total	5.20	9.38	15.7	112		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21-24 QC Batch ID: WG1099050-4 QC Sample: L1809609-21 Client ID: 9179-032018-R1						
Arsenic, Total	5.20	4.77	mg/kg	9		20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-01
Client ID: 9179-032018-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 00:01
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.6		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-02
Client ID: 9179-032018-0920
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 09:20
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.2		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-03
Client ID: 9179-032018-0915
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 09:15
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.5		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-04
Client ID: 9179-032018-0925
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 09:25
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.1		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-05
Client ID: 9179-032018-0930
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 09:30
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.0		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-06
Client ID: 9179-032018-0935
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 09:35
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.5		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-07
Client ID: 9179-032018-0940
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 09:40
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.4		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-08
Client ID: 9179-032018-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 10:00
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.7		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-09
Client ID: 9179-032018-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 10:05
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.3		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-10
Client ID: 9179-032018-1010
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 10:10
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.3		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-11
Client ID: 9179-032018-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 10:15
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.3		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-12
Client ID: 9179-032018-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 10:20
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-13
Client ID: 9179-032018-1025
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 10:25
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-14
Client ID: 9179-032018-1030
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 10:30
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.6		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-15
Client ID: 9179-032018-1035
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 10:35
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.6		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-16
Client ID: 9179-032018-1430
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 14:30
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.8		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-17
Client ID: 9179-032018-1435
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 14:35
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-18
Client ID: 9179-032018-1440
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 14:40
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.2		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-19
Client ID: 9179-032018-1445
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 14:45
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1809609-20
Client ID: 9179-032018-1450
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/20/18 14:50
Date Received: 03/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.7		%	0.100	NA	1	-	03/21/18 08:28	121,2540G	RI

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG1099037-1 QC Sample: L1809609-04 Client ID: 9179-032018-0925						
Solids, Total	64.1	62.8	%	2		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1809609-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-01B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-02B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-03B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-04A1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-04A2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-04B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-04B1	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-04B2	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-05B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-06B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-07B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-08B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-09B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809609
Report Date: 03/21/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1809609-10B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-11A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-11B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-12B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-13B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-14A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-14B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-15A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-15B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-16A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-16B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-17A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-17B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-18A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-18B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-19A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-19B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-20A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-20B	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1809609-21A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-22A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-23A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)
L1809609-24A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		AS-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1809609
Project Number:	128598-003	**Report Date:**	03/21/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1809609
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Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1809609
Project Number:	128598-003	**Report Date:**	03/21/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

IM 03/21/18

CHAIN OF CUSTODY

ALPHA ANALYTICAL
Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288
Service Centers: Brewer, ME 04412; Portsmouth, NH 03801 Mahwah, NJ 07430; Albany, NY 12205; Tonawanda, NY 14150; Holmes, PA 19043

Page 1 of 3

Date Rec'd in Lab: 03/21/18 ~~03/21/18~~

ALPHA Job # L1809609

Project Information
- Project Name: Racer
- Project Location: Ewing Township Industrial Land, Ewing, NJ
- Project #: 128598-003
- (Use Project name as Project #) ☐
- Project Manager: Dan Putz
- ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
- Standard ☐ Due Date:
- Rush (only if pre approved) ☑ # of Days: 1

Deliverables
- ☑ Email ☐ Fax
- ☐ EQuIS (1 File) ☑ EQuIS (4 File)
- ☐ Other:

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Billing Information
- ☐ Same as Client Info
- PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
- ☐ NJ ☐ NY
- ☐ Other:

H&A Information
- H&A Client: Racer
- H&A Address: 6500 Rockslide Rd
- Cleveland OH 44131
- H&A Phone: 216-706-1314
- H&A Fax:
- H&A Email: dputz@haleyaldrich.com

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
- ☐ Done
- ☐ Lab to do

Preservation
- ☐ Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Total Bottles	Sample Specific Comments
09609-01	9179-032018-0001	3/20/18	0001	SO	DG				X							Duplicate Sample
02	9179-032018-0920		0920			2.0			X							
03	9179-032018-0915		0915			1.5			X							
04	9179-032018-0925		0925			~~1.5~~	1.5	(DG)	X							MS/MSD
05	9179-032018-0930		0930			2.0			X							
06	9179-032018-0935		0935			1.5			X							
07	9179-032018-0940		0940			2.0			X							
08	9179-032018-1000		1000			0.5			X							
09	9179-032018-1005	↓	1005	↓	↓	1.0			X							
10	9179-032018-1010	3/20/18	1010	SO	DG	0.5			X							

Container Type: A
Preservative:

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/20/18@1640	AFL	3/20/18 1641
	3/20/18 PM		2220
	0220		3/21/18 02:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers: Brewer, ME 04412 — Portsmouth, NH 03801 — Mahwah, NJ 07430 — Albany, NY 12205 — Tonawanda, NY 14150 — Holmes, PA 19043

Page 2 of 3

Date Rec'd in Lab: 03/21/18

ALPHA Job #: L1809609

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Sample Specific Comments	Total Bottles
09609-11	9179-032018-1015	3/20/18	1015	SO	DG	0.5	(DG)		X			Depth is 1.0	
12	9179-032018-1020		1020			0.5			X				
13	9179-032018-1025		1025			0.5	(DG)		X			Depth is 1.0	
14	9179-032018-1030		1030			0.5			X				
15	9179-032018-1035		1035			1.0			X				
16	9179-032018-1430		1430			0.5			X				
17	9179-032018-1435		1435			2.5			X				
18	9179-032018-1440		1440			0.5			X				
19	9179-032018-1445	↓	1445	↓	↓	2.5			X				
20	9179-032018-1450	3/20/18	1450	SO	DG	3.0			X				

Container Type: A
Preservative:

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/20/18 1540	AAL	3/20/18 1640
	3/20/18 2105		2200
3/21	0700		3/21/18 0700

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CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

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Page 3 of 3

Date Rec'd in Lab: 03/21/18

ALPHA Job #: L1809609

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Sample Specific Comments
09609-21	9179-032018-R1	3/20/18	1600	R	RG	/			X			Rock Sample
22	9179-032018-R2	"	1605	R	"	/			X			Rock Sample
23	9179-032018-R3	↓	1615	R	"	/			X			Rock Sample
24	9179-032018-R4	3/20/18	1625	R	RG	/			X			Rock Sample
Container Type									A			
Preservative												

Total Bottles

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/20 @ 1640		3/20/18 1645
	3/20/18 1905		3/21/18 0710
3/21			3/21/18 0710

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1809912
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	03/23/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1809912-01	9179-032118-0001	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/21/18 00:01	03/22/18
L1809912-02	9179-032118-0825	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/21/18 08:25	03/22/18
L1809912-03	9179-032118-0830	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/21/18 08:30	03/22/18
L1809912-04	9179-032118-0840	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/21/18 08:40	03/22/18
L1809912-05	9179-032118-0845	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/21/18 08:45	03/22/18
L1809912-06	9179-032118-1000	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/21/18 10:00	03/22/18
L1809912-07	9179-032118-1005	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/21/18 10:05	03/22/18
L1809912-08	9179-032118-1015	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/21/18 10:15	03/22/18
L1809912-09	9179-032118-1020	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/21/18 10:20	03/22/18
L1809912-10	9179-032218-0001	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/22/18 00:01	03/22/18
L1809912-11	9179-032218-1400	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/22/18 14:00	03/22/18
L1809912-12	9179-032218-1405	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/22/18 14:05	03/22/18
L1809912-13	9179-032218-1410	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/22/18 14:10	03/22/18
L1809912-14	9179-032218-1415	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/22/18 14:15	03/22/18
L1809912-15	9179-032218-1425	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/22/18 14:25	03/22/18
L1809912-16	9179-032218-1430	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/22/18 14:30	03/22/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: RACER **Lab Number:** L1809912
Project Number: 128598-003 **Report Date:** 03/23/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Total Metals

In reference to question 4:

The WG1099810-3/-4 MS/ MSD recoveries for chromium (2320%/3790%), and nickel (0%/566%), performed on L1809912-09 (9179-032118-1020), do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1099810-7/-8 MS/MSD recoveries for lead (0%/0%), performed on L1809912-16 (9179-032218-1430), do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1099810-7/-8 MS/MSD RPD for lead (28%), performed on L1809912-16 (9179-032218-1430), is above the acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Amita Naik

Title: Technical Director/Representative Date: 03/23/18

METALS

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-01
Client ID: 9179-032118-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 18%

Date Collected: 03/21/18 00:01
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	9840		mg/kg	21.5	2.07	10	03/23/18 06:25	03/23/18 11:38	EPA 3050B	1,6010C	AB
Nickel, Total	28600		mg/kg	53.8	5.21	10	03/23/18 06:25	03/23/18 11:38	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-02
Client ID: 9179-032118-0825
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 24%

Date Collected: 03/21/18 08:25
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	7900		mg/kg	16.5	1.58	10	03/23/18 06:25	03/23/18 11:43	EPA 3050B	1,6010C	AB
Nickel, Total	28400		mg/kg	41.2	3.98	10	03/23/18 06:25	03/23/18 11:43	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-03
Client ID: 9179-032118-0830
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 18%

Date Collected: 03/21/18 08:30
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	11800		mg/kg	22.2	2.13	10	03/23/18 06:25	03/23/18 11:47	EPA 3050B	1,6010C	AB
Nickel, Total	32500		mg/kg	55.4	5.36	10	03/23/18 06:25	03/23/18 11:47	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-04
Client ID: 9179-032118-0840
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 20%

Date Collected: 03/21/18 08:40
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	10100		mg/kg	19.3	1.86	10	03/23/18 06:25	03/23/18 12:04	EPA 3050B	1,6010C	AB
Nickel, Total	29300		mg/kg	48.4	4.68	10	03/23/18 06:25	03/23/18 12:04	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-05
Client ID: 9179-032118-0845
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 19%

Date Collected: 03/21/18 08:45
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	10900		mg/kg	22.2	2.13	10	03/23/18 06:25	03/23/18 12:08	EPA 3050B	1,6010C	AB
Nickel, Total	27200		mg/kg	55.5	5.37	10	03/23/18 06:25	03/23/18 12:08	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-06
Client ID: 9179-032118-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 17%
Date Collected: 03/21/18 10:00
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	18100		mg/kg	23.7	2.28	10	03/23/18 06:25	03/23/18 12:13	EPA 3050B	1,6010C	AB
Nickel, Total	31600		mg/kg	59.3	5.74	10	03/23/18 06:25	03/23/18 12:13	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-07
Client ID: 9179-032118-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 18%

Date Collected: 03/21/18 10:05
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	9660		mg/kg	21.5	2.06	10	03/23/18 06:25	03/23/18 12:18	EPA 3050B	1,6010C	AB
Nickel, Total	25600		mg/kg	53.7	5.20	10	03/23/18 06:25	03/23/18 12:18	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-08
Client ID: 9179-032118-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 45%

Date Collected: 03/21/18 10:15
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	4420		mg/kg	8.42	0.808	10	03/23/18 06:25	03/23/18 12:22	EPA 3050B	1,6010C	AB
Nickel, Total	11200		mg/kg	21.0	2.04	10	03/23/18 06:25	03/23/18 12:22	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-09
Client ID: 9179-032118-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 56%

Date Collected: 03/21/18 10:20
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	3680		mg/kg	6.86	0.658	10	03/23/18 06:25	03/23/18 12:27	EPA 3050B	1,6010C	AB
Nickel, Total	8360		mg/kg	17.1	1.66	10	03/23/18 06:25	03/23/18 12:27	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-10
Client ID: 9179-032218-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/22/18 00:01
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	457		mg/kg	2.44	0.131	1	03/23/18 06:25	03/23/18 11:03	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-11
Client ID: 9179-032218-1400
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 46%

Date Collected: 03/22/18 14:00
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	765		mg/kg	4.14	0.222	1	03/23/18 06:25	03/23/18 11:12	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-12
Client ID: 9179-032218-1405
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 56%

Date Collected: 03/22/18 14:05
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	844		mg/kg	3.46	0.186	1	03/23/18 06:25	03/23/18 11:18	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-13
Client ID: 9179-032218-1410
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 72%

Date Collected: 03/22/18 14:10
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	701		mg/kg	2.63	0.141	1	03/23/18 06:25	03/23/18 11:23	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-14
Client ID: 9179-032218-1415
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 71%

Date Collected: 03/22/18 14:15
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	1300		mg/kg	2.74	0.147	1	03/23/18 06:25	03/23/18 11:28	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-15
Client ID: 9179-032218-1425
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 56%

Date Collected: 03/22/18 14:25
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	2950		mg/kg	3.51	0.188	1	03/23/18 06:25	03/23/18 11:33	EPA 3050B	1,6010C	AB

Project Name: RACER
Lab Number: L1809912
Project Number: 128598-003
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-16
Client ID: 9179-032218-1430
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 59%

Date Collected: 03/22/18 14:30
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	3270		mg/kg	3.20	0.171	1	03/23/18 06:25	03/23/18 10:02	EPA 3050B	1,6010C	AB

Project Name: RACER
Project Number: 128598-003
Lab Number: L1809912
Report Date: 03/23/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-16 Batch: WG1099810-1										
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/23/18 06:25	03/23/18 09:32	1,6010C	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	03/23/18 06:25	03/23/18 09:32	1,6010C	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/23/18 06:25	03/23/18 09:32	1,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1809912

Report Date: 03/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-16 Batch: WG1099810-2 SRM Lot Number: D098-540								
Chromium, Total	101		-		83-119	-		
Lead, Total	98		-		82-117	-		
Nickel, Total	97		-		82-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-16 QC Batch ID: WG1099810-3 WG1099810-4 QC Sample: L1809912-09 Client ID: 9179-032118-1020												
Chromium, Total	3680	27.2	4310	**2320**	Q	4750	**3790**	Q	75-125	10		20
Lead, Total	1100	69.4	1170	101		1310	**292**	Q	75-125	11		20
Nickel, Total	8360	68	8230	**0**	Q	8760	**566**	Q	75-125	6		20
Total Metals - Mansfield Lab Associated sample(s): 01-16 QC Batch ID: WG1099810-7 WG1099810-8 QC Sample: L1809912-16 Client ID: 9179-032218-1430												
Chromium, Total	894.	26	817	**0**	Q	663	**0**	Q	75-125	**21**	Q	20
Lead, Total	3270	66.4	3130	**0**	Q	2360	**0**	Q	75-125	**28**	Q	20
Nickel, Total	61.2	65.1	118	87		118	87		75-125	0		20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-01
Client ID: 9179-032118-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/21/18 00:01
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	18.0		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-02
Client ID: 9179-032118-0825
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/21/18 08:25
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	23.6		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-03
Client ID: 9179-032118-0830
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/21/18 08:30
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	17.9		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-04
Client ID: 9179-032118-0840
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/21/18 08:40
Date Received: 03/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	19.7		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-05
Client ID: 9179-032118-0845
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/21/18 08:45
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	18.5		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-06
Client ID: 9179-032118-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/21/18 10:00
Date Received: 03/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	16.7		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-07
Client ID: 9179-032118-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/21/18 10:05
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	18.3		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-08
Client ID: 9179-032118-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/21/18 10:15
Date Received: 03/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	45.4		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-09
Client ID: 9179-032118-1020
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/21/18 10:20
Date Received: 03/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	55.5		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-10
Client ID: 9179-032218-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/22/18 00:01
Date Received: 03/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.1		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-11
Client ID: 9179-032218-1400
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/22/18 14:00
Date Received: 03/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	46.2		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-12
Client ID: 9179-032218-1405
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/22/18 14:05
Date Received: 03/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	56.2		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-13
Client ID: 9179-032218-1410
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/22/18 14:10
Date Received: 03/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.4		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-14
Client ID: 9179-032218-1415
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/22/18 14:15
Date Received: 03/22/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.7		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-15
Client ID: 9179-032218-1425
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/22/18 14:25
Date Received: 03/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	55.7		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

SAMPLE RESULTS

Lab ID: L1809912-16
Client ID: 9179-032218-1430
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/22/18 14:30
Date Received: 03/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	59.2		%	0.100	NA	1	-	03/22/18 23:36	121,2540G	FN

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-16 QC Batch ID: WG1099760-1 QC Sample: L1809912-09 Client ID: 9179-032118-1020						
Solids, Total	55.5	54.6	%	2		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1809912-01A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		CR-TI(180),NI-TI(180)
L1809912-02A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		CR-TI(180),NI-TI(180)
L1809912-03A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		CR-TI(180),NI-TI(180)
L1809912-04A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		CR-TI(180),NI-TI(180)
L1809912-05A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		CR-TI(180),NI-TI(180)
L1809912-06A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		CR-TI(180),NI-TI(180)
L1809912-07A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-07B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		CR-TI(180),NI-TI(180)
L1809912-08A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-08B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		CR-TI(180),NI-TI(180)
L1809912-09A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-09B	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-09C	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-09D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		CR-TI(180),NI-TI(180)
L1809912-09E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		CR-TI(180),NI-TI(180)
L1809912-09F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		CR-TI(180),NI-TI(180)
L1809912-10A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1809912
Report Date: 03/23/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1809912-10B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		PB-TI(180)
L1809912-11A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-11B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		PB-TI(180)
L1809912-12A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-12B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		PB-TI(180)
L1809912-13A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-13B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		PB-TI(180)
L1809912-14A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-14B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		PB-TI(180)
L1809912-15A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-15B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		PB-TI(180)
L1809912-16A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-16B	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-16C	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1809912-16D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		PB-TI(180)
L1809912-16E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		PB-TI(180)
L1809912-16F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1809912
Project Number:	128598-003	**Report Date:**	03/23/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1809912
Project Number:	128598-003	**Report Date:**	03/23/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1809912
Project Number:	128598-003	**Report Date:**	03/23/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 1 of 2

Date Rec'd in Lab: 3/22/18

ALPHA Job #: L1809912

H&A Information
H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information
Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables
☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Caution! samples taken 3/22 may contain broken glass!

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Sample Specific Comments	Total Bottles
59912 - 01	9179-032118-0001	3/21/18	0001	SO	DG			X		X					Duplicate Sample	
02	9179-032118-0825		0825			2.5		X		X						
03	9179-032118-0830		0830			3.0		X		X						
04	9179-032118-0840		0840			4.0		X		X						
05	9179-032118-0845		0845			5.0		X		X						
06	9179-032118-1000		1000			5.0		X		X						
07	9179-032118-1005		1005			5.5		X		X						
08	9179-032118-1015		1015			5.0		X		X						
09	9179-032118-1020	3/21/18	1020			5.0		X		X					MS/MSD	
10	9179-032218-0001	3/22/18	0001	SO	DG						X				Duplicate (Alt)	

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/22/18 1615	Paul Mancella	3/22/18 1615
Paul Mancella	3/22/18 1835		3/22/18 1835
			3/22/18 2215

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 2 of 2

Date Rec'd in Lab: 3/22/18

ALPHA Job #: L1809912

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

CAUTION - Samples taken 3/22 may contain broken glass

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
09912 - 11	9179-032218-1400	3/22/18	1400	SO	DG						X		CAUTION
12	9179-032218-1405	"	1405	"	"						X		HANDLING
13	9179-032218-1410	"	1410	"	"						X		SAMPLES!
14	9179-032218-1415	"	1415	"	"						X		BROKEN GLASS
15	9179-032218-1425	"	1425	"	"						X		!
16	9179-032218-1430	3/22/18	1430	SO	DG						X		MS/MSD

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	3/22/18 1615	Paul Mascella	3/22/18 1615
Paul Mascella	3/22/18 1825	[illegible]	3/22/18 1825
[illegible]	[illegible]	[illegible]	3/22/18 2215

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1810262
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	03/27/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1810262-01	9179-032618-0001	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 00:01	03/26/18
L1810262-02	9179-032618-0840	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 08:40	03/26/18
L1810262-03	9179-032618-0845	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 08:45	03/26/18
L1810262-04	9179-032618-0850	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 08:50	03/26/18
L1810262-05	9179-032618-0855	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 08:55	03/26/18
L1810262-06	9179-032618-0900	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 09:00	03/26/18
L1810262-07	9179-032618-0905	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 09:05	03/26/18
L1810262-08	9179-032618-0920	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 09:20	03/26/18
L1810262-09	9179-032618-0925	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 09:25	03/26/18
L1810262-10	9179-032618-0930	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 09:30	03/26/18
L1810262-11	9179-032618-0935	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 09:35	03/26/18
L1810262-12	9179-032618-0940	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 09:40	03/26/18
L1810262-13	9179-032618-0945	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 09:45	03/26/18
L1810262-14	9179-032618-1500	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 15:00	03/26/18
L1810262-15	9179-032618-1505	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 15:05	03/26/18
L1810262-16	9179-032618-1510	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 15:10	03/26/18
L1810262-17	9179-032618-1515	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 15:15	03/26/18
L1810262-18	9179-032618-1520	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 15:20	03/26/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1810262-19	9179-032618-1525	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 15:25	03/26/18
L1810262-20	9179-032618-1530	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 15:30	03/26/18
L1810262-21	9179-032618-1535	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 15:35	03/26/18
L1810262-22	9179-032618-1540	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 15:40	03/26/18
L1810262-23	9179-032618-1545	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	03/26/18 15:45	03/26/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	YES
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	RACER	**Lab Number:**	L1810262
Project Number:	128598-003	**Report Date:**	03/27/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Cripps

Title: Technical Director/Representative Date: 03/27/18

METALS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-01
Client ID: 9179-032618-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/26/18 00:01
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	10.3		mg/kg	0.486	0.101	1	03/27/18 08:10	03/27/18 10:59	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-02
Client ID: 9179-032618-0840
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/26/18 08:40
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	7.17		mg/kg	0.480	0.100	1	03/27/18 08:10	03/27/18 11:03	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-03
Client ID: 9179-032618-0845
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 81%

Date Collected: 03/26/18 08:45
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	6.57		mg/kg	0.470	0.098	1	03/27/18 08:10	03/27/18 11:07	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-04
Client ID: 9179-032618-0850
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 85%

Date Collected: 03/26/18 08:50
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	6.81		mg/kg	0.444	0.092	1	03/27/18 08:10	03/27/18 11:24	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-05
Client ID: 9179-032618-0855
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 85%

Date Collected: 03/26/18 08:55
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.00		mg/kg	0.454	0.094	1	03/27/18 08:10	03/27/18 11:28	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-06
Client ID: 9179-032618-0900
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 73%

Date Collected: 03/26/18 09:00
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	6.21		mg/kg	0.535	0.111	1	03/27/18 08:10	03/27/18 11:32	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-07
Client ID: 9179-032618-0905
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 87%

Date Collected: 03/26/18 09:05
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.62		mg/kg	0.432	0.090	1	03/27/18 08:10	03/27/18 11:36	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-08
Client ID: 9179-032618-0920
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 78%

Date Collected: 03/26/18 09:20
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	16.0		mg/kg	0.489	0.102	1	03/27/18 08:10	03/27/18 11:41	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-09
Client ID: 9179-032618-0925
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/26/18 09:25
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.92		mg/kg	0.468	0.097	1	03/27/18 08:10	03/27/18 11:45	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-10
Client ID: 9179-032618-0930
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/26/18 09:30
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	37.9		mg/kg	0.503	0.104	1	03/27/18 08:10	03/27/18 11:49	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-11
Client ID: 9179-032618-0935
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 84%

Date Collected: 03/26/18 09:35
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	9.74		mg/kg	0.446	0.093	1	03/27/18 08:10	03/27/18 11:53	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-12
Client ID: 9179-032618-0940
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 82%

Date Collected: 03/26/18 09:40
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.73		mg/kg	0.469	0.098	1	03/27/18 08:10	03/27/18 11:57	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-13
Client ID: 9179-032618-0945
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 80%

Date Collected: 03/26/18 09:45
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	6.30		mg/kg	0.482	0.100	1	03/27/18 08:10	03/27/18 10:43	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-14
Client ID: 9179-032618-1500
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 72%

Date Collected: 03/26/18 15:00
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	200		mg/kg	2.68	0.144	1	03/27/18 08:10	03/27/18 12:01	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-15
Client ID: 9179-032618-1505
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 74%

Date Collected: 03/26/18 15:05
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	92.0		mg/kg	2.59	0.139	1	03/27/18 08:10	03/27/18 12:14	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-16
Client ID: 9179-032618-1510
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 70%

Date Collected: 03/26/18 15:10
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	380		mg/kg	2.70	0.144	1	03/27/18 08:10	03/27/18 12:18	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-17
Client ID: 9179-032618-1515
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 77%

Date Collected: 03/26/18 15:15
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	350		mg/kg	2.55	0.137	1	03/27/18 08:10	03/27/18 12:23	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-18
Client ID: 9179-032618-1520
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 75%

Date Collected: 03/26/18 15:20
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	153		mg/kg	2.59	0.139	1	03/27/18 08:10	03/27/18 12:27	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-19
Client ID: 9179-032618-1525
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 72%

Date Collected: 03/26/18 15:25
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	123		mg/kg	2.61	0.140	1	03/27/18 08:10	03/27/18 12:31	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-20
Client ID: 9179-032618-1530
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 72%

Date Collected: 03/26/18 15:30
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	314		mg/kg	2.66	0.143	1	03/27/18 08:10	03/27/18 12:36	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-21
Client ID: 9179-032618-1535
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 69%

Date Collected: 03/26/18 15:35
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	146		mg/kg	2.86	0.153	1	03/27/18 08:10	03/27/18 12:32	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-22
Client ID: 9179-032618-1540
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 03/26/18 15:40
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	646		mg/kg	2.48	0.133	1	03/27/18 08:10	03/27/18 12:37	EPA 3050B	1,6010C	PS

Project Name: RACER
Lab Number: L1810262
Project Number: 128598-003
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-23
Client ID: 9179-032618-1545
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 56%

Date Collected: 03/26/18 15:45
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	678		mg/kg	3.42	0.183	1	03/27/18 08:10	03/27/18 12:42	EPA 3050B	1,6010C	PS

Project Name: RACER
Project Number: 128598-003
Lab Number: L1810262
Report Date: 03/27/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-20 Batch: WG1100740-1										
Arsenic, Total	0.116	J	mg/kg	0.400	0.083	1	03/27/18 08:10	03/27/18 10:35	1,6010C	PS
Lead, Total	ND		mg/kg	2.00	0.107	1	03/27/18 08:10	03/27/18 10:35	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 21-23 Batch: WG1100741-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	03/27/18 08:10	03/27/18 11:11	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1810262

Report Date: 03/27/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 Batch: WG1100740-2 SRM Lot Number: D098-540								
Arsenic, Total	100		-		83-117	-		
Lead, Total	93		-		82-117	-		
Total Metals - Mansfield Lab Associated sample(s): 21-23 Batch: WG1100741-2 SRM Lot Number: D098-540								
Lead, Total	98		-		82-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1100740-3 WG1100740-4 QC Sample: L1810262-13 Client ID: 9179-032618-0945												
Arsenic, Total	6.30	11.7	16.5	87		15.6	78		75-125	6		20
Lead, Total	31.9	49.7	55.7	**48**	Q	60.0	**56**	Q	75-125	7		20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-01
Client ID: 9179-032618-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/26/18 00:01
Date Received: 03/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-02
Client ID: 9179-032618-0840
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/26/18 08:40
Date Received: 03/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-03
Client ID: 9179-032618-0845
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/26/18 08:45
Date Received: 03/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.6		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-04
Client ID: 9179-032618-0850
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/26/18 08:50
Date Received: 03/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-05
Client ID: 9179-032618-0855
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/26/18 08:55
Date Received: 03/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.7		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-06
Client ID: 9179-032618-0900
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/26/18 09:00
Date Received: 03/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.1		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-07
Client ID: 9179-032618-0905
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/26/18 09:05
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.1		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-08
Client ID: 9179-032618-0920
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/26/18 09:20
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.6		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-09
Client ID: 9179-032618-0925
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/26/18 09:25
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.2		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-10
Client ID: 9179-032618-0930
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/26/18 09:30
Date Received: 03/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.7		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-11
Client ID: 9179-032618-0935
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/26/18 09:35
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-12
Client ID: 9179-032618-0940
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/26/18 09:40
Date Received: 03/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.0		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-13
Client ID: 9179-032618-0945
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/26/18 09:45
Date Received: 03/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.1		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-14
Client ID: 9179-032618-1500
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/26/18 15:00
Date Received: 03/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.6		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-15
Client ID: 9179-032618-1505
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/26/18 15:05
Date Received: 03/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.2		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-16
Client ID: 9179-032618-1510
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/26/18 15:10
Date Received: 03/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.1		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-17
Client ID: 9179-032618-1515
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/26/18 15:15
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.2		%	0.100	NA	1	-	03/27/18 02:49	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-18
Client ID: 9179-032618-1520
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/26/18 15:20
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.0		%	0.100	NA	1	-	03/27/18 01:40	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-19
Client ID: 9179-032618-1525
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/26/18 15:25
Date Received: 03/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.0		%	0.100	NA	1	-	03/27/18 01:40	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-20
Client ID: 9179-032618-1530
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/26/18 15:30
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.8		%	0.100	NA	1	-	03/27/18 01:40	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-21
Client ID: 9179-032618-1535
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/26/18 15:35
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.5		%	0.100	NA	1	-	03/27/18 01:40	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-22
Client ID: 9179-032618-1540
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 03/26/18 15:40
Date Received: 03/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.9		%	0.100	NA	1	-	03/27/18 01:40	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

SAMPLE RESULTS

Lab ID: L1810262-23
Client ID: 9179-032618-1545
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 03/26/18 15:45
Date Received: 03/26/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	55.9		%	0.100	NA	1	-	03/27/18 01:40	121,2540G	FN

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-17 QC Batch ID: WG1100699-1 QC Sample: L1810262-13 Client ID: 9179-032618-0945						
Solids, Total	80.1	79.8	%	0		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1810262-01A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-02A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-03A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-04A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-05A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-06A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-07A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-07B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-08A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-08B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-09A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-09B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-10A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-10B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-11A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-11B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-12A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1810262
Report Date: 03/27/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1810262-12B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-13A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-13B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-13C	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-13D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-13E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-13F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		AS-TI(180)
L1810262-14A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-14B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1810262-15A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-15B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1810262-16A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-16B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1810262-17A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-17B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1810262-18A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-18B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1810262-19A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-19B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1810262-20A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-20B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1810262-21A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-21B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1810262-22A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-22B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1810262-23A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1810262-23B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1810262
Project Number:	128598-003	**Report Date:**	03/27/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1810262
Project Number:	128598-003	**Report Date:**	03/27/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1810262
Project Number:	128598-003	**Report Date:**	03/27/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 1 of 3

Date Rec'd in Lab 3/26/18

ALPHA Job # L1810262

H&A Information
H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information
Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project # 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables
☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
10262 - 01	9179-032618- 0001	3/26/2018	0001	So	DG	/			X				
02	9179-032618- 0840		0840			1.5			X				
03	9179-032618- 0845		0845			2.0			X				
04	9179-032618- 0850		0850			1.5			X				
05	9179-032618- 0855		0855			2.0			X				
06	9179-032618- 0900		0900			1.5			X				
07	9179-032618- 0905		0905			2.0			X				
08	9179-032618- 0920		0920			2.5			X				
09	9179-032618- 0925	↓	0925	↓	↓	3.0			X				
10	9179-032618- 0930	3/26/2018	0930	So	DG	2.5			X				
						Container Type			A				
						Preservative							

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/26/18 1800	Jon Purdum AAL	3/26/18 1700
Jon Purdum	3/26/18 1950		
	3/26/18 2200		3/26/18 2200

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 2 of 3

Date Rec'd in Lab 3/26/18

ALPHA Job # ~~L1810262~~ L1810262

H&A Information
H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information
Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project # 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables
☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Total # Bottles	Sample Specific Comments
10262 - 11	9179-032618- 0935	3/26/2018	0935	So	DG	3.0			X							
12	9179-032618- 0940		0940	So		2.5			X							
13	9179-032618- 0945		0945			3.0			X							MS/MSD
14	9179-032618- 1500		1500			8.5					X					
15	9179-032618- 1505		1505			9.0					X					
16	9179-032618- 1510		1510			8.5					X					
17	9179-032618- 1515		1515			9.0					X					
18	9179-032618- 1520		1520			8.5					X					
19	9179-032618- 1525	↓	1525	↓	↓	9.0					X					
20	9179-032618- 1530	3/26/2018	1530	So	DG	8.5					X					
						Container Type					4					
						Preservative										

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/26 1700	Jon Pardini AAL	3/26/18 1701
Jon Pardini	3/26/18 1900		3/27/18 1900
	3/26/18 2325		3/26/18 2325

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

ALPHA ANALYTICAL
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FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Date Rec'd in Lab: 3/26/18

ALPHA Job #: L1810262

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
10262-21	9179-032618-1535	3/26/18	1535	SO	DG	9.0					X		
22	9179-032618-1540	↓	1540	↓	↓	8.5					X		
23	9179-032618-1545	3/26/18	1545	SO	DG	9.0					X		
Container Type											A		
Preservative													

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/26/18 1700	Jon Pandiri AAL	3/26/18 1700
Jon Pandiri	3/26/18 1900		3/26/18 2252

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

ANALYTICAL REPORT

Lab Number:	L1811349
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	04/04/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811349
Report Date: 04/04/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1811349-01	9179-040318-0930	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/03/18 09:30	04/03/18
L1811349-02	9179-040318-0935	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/03/18 09:35	04/03/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811349
Report Date: 04/04/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811349
Report Date: 04/04/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811349
Report Date: 04/04/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Total Metals

In reference to question 4:

The WG1103278-3 MS recovery for lead (256%), performed on L1811349-01, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1103278-4 Laboratory Duplicate RPD for lead (28%), performed on L1811349-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 04/04/18

METALS

Project Name: RACER
Lab Number: L1811349
Project Number: 128598-003
Report Date: 04/04/18

SAMPLE RESULTS

Lab ID: L1811349-01
Client ID: 9179-040318-0930
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 71%

Date Collected: 04/03/18 09:30
Date Received: 04/03/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	595		mg/kg	2.72	0.146	1	04/04/18 05:15	04/04/18 10:09	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1811349
Project Number: 128598-003
Report Date: 04/04/18

SAMPLE RESULTS

Lab ID: L1811349-02
Client ID: 9179-040318-0935
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 64%

Date Collected: 04/03/18 09:35
Date Received: 04/03/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	418		mg/kg	3.08	0.165	1	04/04/18 05:15	04/04/18 10:30	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811349
Report Date: 04/04/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1103278-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	04/04/18 05:15	04/04/18 10:00	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1811349

Report Date: 04/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1103278-2 SRM Lot Number: D098-540								
Lead, Total	91		-		82-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811349
Report Date: 04/04/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1103278-3 QC Sample: L1811349-01 Client ID: 9179-040318-0930												
Lead, Total	595.	54.7	735	**256**	Q	-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811349
Report Date: 04/04/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1103278-4 QC Sample: L1811349-01 Client ID: 9179-040318-0930						
Lead, Total	595.	448	mg/kg	**28**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811349
Report Date: 04/04/18

SAMPLE RESULTS

Lab ID: L1811349-01
Client ID: 9179-040318-0930
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/03/18 09:30
Date Received: 04/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.8		%	0.100	NA	1	-	04/04/18 01:20	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811349
Report Date: 04/04/18

SAMPLE RESULTS

Lab ID: L1811349-02
Client ID: 9179-040318-0935
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/03/18 09:35
Date Received: 04/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.0		%	0.100	NA	1	-	04/04/18 01:20	121,2540G	FN

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811349
Report Date: 04/04/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1811349-01A	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1811349-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)
L1811349-02A	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L1811349-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1811349
Project Number:	128598-003	**Report Date:**	04/04/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1811349
Project Number:	128598-003	**Report Date:**	04/04/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1811349
Project Number:	128598-003	**Report Date:**	04/04/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers: Brewer, ME 04412; Portsmouth, NH 03801; Mahwah, NJ 07430; Albany, NY 12205; Tonawanda, NY 14150; Holmes, PA 19043

Page 1 of 1

Date Rec'd in Lab: 4/3/18

ALPHA Job #: L1811349

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

CAUTION MAY CONTAIN BROKEN GLASS

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Sample Specific Comments	Total Bottles
11349-01	9179-040318-0930	4/3/18	930	SO	DG	8.5					X					
02	9179-040318-0935	4/3/18	935	SO	DG	9.0					X					

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	4/3/18 1230	DonD AAL	4/3/18 1235
DonD AAL	4/3/18 1405		
	4/3/18 2110		4/3/18 2210

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1811684
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	04/06/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1811684-01	9179-040418-1000	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 10:00	04/04/18
L1811684-02	9179-040418-1005	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 10:05	04/04/18
L1811684-03	9179-040418-1010	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 10:10	04/04/18
L1811684-04	9179-040418-1015	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 10:15	04/04/18
L1811684-05	9179-040418-1040	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 10:40	04/04/18
L1811684-06	9179-040418-1045	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 10:45	04/04/18
L1811684-07	9179-040418-1050	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 10:50	04/04/18
L1811684-08	9179-040418-1055	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 10:55	04/04/18
L1811684-09	9179-040418-1110	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 11:10	04/04/18
L1811684-10	9179-040418-1115	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 11:15	04/04/18
L1811684-11	9179-040418-0001	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 00:01	04/04/18
L1811684-12	9179-040418-1250	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 12:50	04/04/18
L1811684-13	9179-040418-1255	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 12:55	04/04/18
L1811684-14	9179-040418-1300	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 13:00	04/04/18
L1811684-15	9179-040418-1305	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 13:05	04/04/18
L1811684-16	9179-040418-1320	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 13:20	04/04/18
L1811684-17	9179-040418-1325	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 13:25	04/04/18
L1811684-18	9179-040418-1330	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 13:30	04/04/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1811684-19	9179-040418-1335	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 13:35	04/04/18
L1811684-20	9179-040418-1340	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 13:40	04/04/18
L1811684-21	9179-040418-1345	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 13:45	04/04/18
L1811684-22	9179-040418-1350	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 13:50	04/04/18
L1811684-23	9179-040418-1355	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 13:55	04/04/18
L1811684-24	9179-040418-1400	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 14:00	04/04/18
L1811684-25	9179-040418-1405	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 14:05	04/04/18
L1811684-26	9179-040418-1410	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 14:10	04/04/18
L1811684-27	9179-040418-1415	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/04/18 14:15	04/04/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	RACER	**Lab Number:**	L1811684
Project Number:	128598-003	**Report Date:**	04/06/18

Case Narrative (continued)

Report Submission

April 06, 2018: This final report includes the results of the Metals analysis performed on L1811684-01, -02, -05, -06, -12 through -19, -24, and -25.

April 05, 2018: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Total Metals

In reference to question 4:

The WG1103672-3/-4 MS/MSD recoveries for chromium and nickel (all at 0%), performed on L1811684-27, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1103672-3/-4 MS/MSD RPDs for chromium (45%), and nickel (53%), performed on L1811684-27, are above the acceptance criteria.

The WG1103960-3 MS recoveries for chromium (2610%) and nickel (0%), performed on L1811684-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Cristin Walker

Title: Technical Director/Representative Date: 04/06/18

METALS

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-01
Client ID: 9179-040418-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 19%

Date Collected: 04/04/18 10:00
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	16400		mg/kg	20.5	1.97	10	04/05/18 19:36	04/06/18 00:32	EPA 3050B	1,6010C	PE
Nickel, Total	33500		mg/kg	51.3	4.97	10	04/05/18 19:36	04/06/18 00:32	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-02
Client ID: 9179-040418-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 29%

Date Collected: 04/04/18 10:05
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	8090		mg/kg	13.5	1.29	10	04/05/18 19:36	04/06/18 01:12	EPA 3050B	1,6010C	PE
Nickel, Total	20600		mg/kg	33.6	3.26	10	04/05/18 19:36	04/06/18 01:12	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-03
Client ID: 9179-040418-1010
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 24%

Date Collected: 04/04/18 10:10
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	6520		mg/kg	16.0	1.53	10	04/05/18 05:30	04/05/18 09:09	EPA 3050B	1,6010C	PE
Nickel, Total	21500		mg/kg	39.9	3.86	10	04/05/18 05:30	04/05/18 09:09	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-04
Client ID: 9179-040418-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 17%

Date Collected: 04/04/18 10:15
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	12200		mg/kg	22.5	2.16	10	04/05/18 05:30	04/05/18 09:13	EPA 3050B	1,6010C	PE
Nickel, Total	33500		mg/kg	56.3	5.45	10	04/05/18 05:30	04/05/18 09:13	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-05
Client ID: 9179-040418-1040
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 31%

Date Collected: 04/04/18 10:40
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	9300		mg/kg	12.2	1.17	10	04/05/18 19:36	04/06/18 01:16	EPA 3050B	1,6010C	PE
Nickel, Total	23600		mg/kg	30.6	2.96	10	04/05/18 19:36	04/06/18 01:16	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-06
Client ID: 9179-040418-1045
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 35%

Date Collected: 04/04/18 10:45
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	13600		mg/kg	11.2	1.08	10	04/05/18 19:36	04/06/18 01:21	EPA 3050B	1,6010C	PE
Nickel, Total	18300		mg/kg	28.1	2.72	10	04/05/18 19:36	04/06/18 01:21	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-07
Client ID: 9179-040418-1050
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 73%

Date Collected: 04/04/18 10:50
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1540		mg/kg	5.20	0.500	10	04/05/18 05:30	04/05/18 09:17	EPA 3050B	1,6010C	PE
Nickel, Total	2430		mg/kg	13.0	1.26	10	04/05/18 05:30	04/05/18 09:17	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-08
Client ID: 9179-040418-1055
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 30%

Date Collected: 04/04/18 10:55
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	6860		mg/kg	13.1	1.26	10	04/05/18 05:30	04/05/18 09:30	EPA 3050B	1,6010C	PE
Nickel, Total	17700		mg/kg	32.8	3.17	10	04/05/18 05:30	04/05/18 09:30	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-09
Client ID: 9179-040418-1110
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 31%

Date Collected: 04/04/18 11:10
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	9140		mg/kg	12.8	1.23	10	04/05/18 05:30	04/05/18 09:34	EPA 3050B	1,6010C	PE
Nickel, Total	22500		mg/kg	32.0	3.10	10	04/05/18 05:30	04/05/18 09:34	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-10
Client ID: 9179-040418-1115
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 41%

Date Collected: 04/04/18 11:15
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	2420		mg/kg	9.57	0.919	10	04/05/18 05:30	04/05/18 09:38	EPA 3050B	1,6010C	PE
Nickel, Total	4820		mg/kg	23.9	2.32	10	04/05/18 05:30	04/05/18 09:38	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-11
Client ID: 9179-040418-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 26%

Date Collected: 04/04/18 00:01
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	7670		mg/kg	15.2	1.46	10	04/05/18 05:30	04/05/18 09:42	EPA 3050B	1,6010C	PE
Nickel, Total	18800		mg/kg	37.9	3.67	10	04/05/18 05:30	04/05/18 09:42	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-12
Client ID: 9179-040418-1250
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 69%

Date Collected: 04/04/18 12:50
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	610		mg/kg	0.550	0.053	1	04/05/18 19:36	04/05/18 23:24	EPA 3050B	1,6010C	PE
Nickel, Total	702		mg/kg	1.37	0.133	1	04/05/18 19:36	04/05/18 23:24	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-13
Client ID: 9179-040418-1255
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 73%

Date Collected: 04/04/18 12:55
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	774		mg/kg	0.531	0.051	1	04/05/18 19:36	04/05/18 23:29	EPA 3050B	1,6010C	PE
Nickel, Total	1060		mg/kg	1.33	0.128	1	04/05/18 19:36	04/05/18 23:29	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-14
Client ID: 9179-040418-1300
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 67%

Date Collected: 04/04/18 13:00
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1450		mg/kg	0.581	0.056	1	04/05/18 19:36	04/05/18 23:33	EPA 3050B	1,6010C	PE
Nickel, Total	3580		mg/kg	14.5	1.41	10	04/05/18 19:36	04/06/18 01:25	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-15
Client ID: 9179-040418-1305
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 74%

Date Collected: 04/04/18 13:05
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	944		mg/kg	0.514	0.049	1	04/05/18 19:36	04/05/18 23:38	EPA 3050B	1,6010C	PE
Nickel, Total	1840		mg/kg	12.8	1.24	10	04/05/18 19:36	04/06/18 01:29	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-16
Client ID: 9179-040418-1320
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 73%

Date Collected: 04/04/18 13:20
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1460		mg/kg	0.514	0.049	1	04/05/18 19:36	04/05/18 23:42	EPA 3050B	1,6010C	PE
Nickel, Total	2490		mg/kg	12.8	1.24	10	04/05/18 19:36	04/06/18 01:33	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-17
Client ID: 9179-040418-1325
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 76%

Date Collected: 04/04/18 13:25
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	305		mg/kg	0.501	0.048	1	04/05/18 19:36	04/06/18 00:09	EPA 3050B	1,6010C	PE
Nickel, Total	177		mg/kg	1.25	0.121	1	04/05/18 19:36	04/06/18 00:09	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-18
Client ID: 9179-040418-1330
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 77%

Date Collected: 04/04/18 13:30
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	230		mg/kg	0.494	0.047	1	04/05/18 19:36	04/06/18 00:14	EPA 3050B	1,6010C	PE
Nickel, Total	424		mg/kg	1.24	0.120	1	04/05/18 19:36	04/06/18 00:14	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-19
Client ID: 9179-040418-1335
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 37%

Date Collected: 04/04/18 13:35
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	923		mg/kg	1.05	0.101	1	04/05/18 19:36	04/06/18 00:19	EPA 3050B	1,6010C	PE
Nickel, Total	1530		mg/kg	2.62	0.254	1	04/05/18 19:36	04/06/18 00:19	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-20
Client ID: 9179-040418-1340
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 19%

Date Collected: 04/04/18 13:40
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	11800		mg/kg	19.7	1.89	10	04/05/18 05:30	04/05/18 09:46	EPA 3050B	1,6010C	PE
Nickel, Total	32900		mg/kg	49.3	4.77	10	04/05/18 05:30	04/05/18 09:46	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-21
Client ID: 9179-040418-1345
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 43%

Date Collected: 04/04/18 13:45
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	7680		mg/kg	9.18	0.882	10	04/05/18 05:30	04/05/18 09:51	EPA 3050B	1,6010C	PE
Nickel, Total	14200		mg/kg	23.0	2.22	10	04/05/18 05:30	04/05/18 09:51	EPA 3050B	1,6010C	PE

Project Name: RACER **Lab Number:** L1811684

Project Number: 128598-003 **Report Date:** 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-22 Date Collected: 04/04/18 13:50

Client ID: 9179-040418-1350 Date Received: 04/04/18

Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 26%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	9120		mg/kg	15.0	1.44	10	04/05/18 05:30	04/05/18 09:55	EPA 3050B	1,6010C	PE
Nickel, Total	19500		mg/kg	37.4	3.62	10	04/05/18 05:30	04/05/18 09:55	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-23
Client ID: 9179-040418-1355
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 35%

Date Collected: 04/04/18 13:55
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	8830		mg/kg	10.9	1.05	10	04/05/18 05:30	04/05/18 09:59	EPA 3050B	1,6010C	PE
Nickel, Total	18600		mg/kg	27.4	2.65	10	04/05/18 05:30	04/05/18 09:59	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-24
Client ID: 9179-040418-1400
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 28%

Date Collected: 04/04/18 14:00
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	15500		mg/kg	28.6	2.74	20	04/05/18 19:36	04/06/18 01:38	EPA 3050B	1,6010C	PE
Nickel, Total	40900		mg/kg	71.5	6.92	20	04/05/18 19:36	04/06/18 01:38	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-25
Client ID: 9179-040418-1405
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 26%

Date Collected: 04/04/18 14:05
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	9060		mg/kg	15.2	1.46	10	04/05/18 19:36	04/06/18 01:42	EPA 3050B	1,6010C	PE
Nickel, Total	21200		mg/kg	38.1	3.69	10	04/05/18 19:36	04/06/18 01:42	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-26
Client ID: 9179-040418-1410
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 54%

Date Collected: 04/04/18 14:10
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	2010		mg/kg	7.23	0.694	10	04/05/18 05:30	04/05/18 10:03	EPA 3050B	1,6010C	PE
Nickel, Total	5320		mg/kg	18.1	1.75	10	04/05/18 05:30	04/05/18 10:03	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811684
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-27
Client ID: 9179-040418-1415
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 61%

Date Collected: 04/04/18 14:15
Date Received: 04/04/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1610		mg/kg	6.28	0.603	10	04/05/18 05:30	04/05/18 08:48	EPA 3050B	1,6010C	PE
Nickel, Total	5420		mg/kg	15.7	1.52	10	04/05/18 05:30	04/05/18 08:48	EPA 3050B	1,6010C	PE

Project Name: RACER
Project Number: 128598-003
Lab Number: L1811684
Report Date: 04/06/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03-04,07-11,20-23,26-27 Batch: WG1103672-1										
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/05/18 05:30	04/05/18 08:40	1,6010C	PE
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/05/18 05:30	04/05/18 08:40	1,6010C	PE

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02,05-06,12-19,24-25 Batch: WG1103960-1										
Chromium, Total	0.048	J	mg/kg	0.400	0.038	1	04/05/18 19:36	04/05/18 22:09	1,6010C	PE
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/05/18 19:36	04/05/18 22:09	1,6010C	PE

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1811684

Report Date: 04/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-04,07-11,20-23,26-27 Batch: WG1103672-2 SRM Lot Number: D098-540								
Chromium, Total	95		-		83-119	-		
Nickel, Total	91		-		82-117	-		
Total Metals - Mansfield Lab Associated sample(s): 01-02,05-06,12-19,24-25 Batch: WG1103960-2 SRM Lot Number: D098-540								
Chromium, Total	85		-		83-119	-		
Nickel, Total	87		-		82-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-04,07-11,20-23,26-27 QC Batch ID: WG1103672-3 WG1103672-4 QC Sample: L1811684-27 Client ID: 9179-040418-1415												
Chromium, Total	1610	25.5	936	**0**	Q	592	**0**	Q	75-125	**45**	Q	20
Nickel, Total	5420	63.7	1850	**0**	Q	1080	**0**	Q	75-125	**53**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-02,05-06,12-19,24-25 QC Batch ID: WG1103960-3 QC Sample: L1811684-01 Client ID: 9179-040418-1000												
Chromium, Total	16400	84.4	18600	**2610**	Q	-	-		75-125	-		20
Nickel, Total	33500	211	30400	**0**	Q	-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,05-06,12-19,24-25 QC Batch ID: WG1103960-4 QC Sample: L1811684-01 Client ID: 9179-040418-1000						
Chromium, Total	16400	14800	mg/kg	10		20
Nickel, Total	33500	31000	mg/kg	8		20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-01
Client ID: 9179-040418-1000
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 10:00
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	18.8		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-02
Client ID: 9179-040418-1005
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 10:05
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	28.7		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-03
Client ID: 9179-040418-1010
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 10:10
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	23.7		%	0.100	NA	1	-	04/05/18 02:18	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-04
Client ID: 9179-040418-1015
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 10:15
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	17.0		%	0.100	NA	1	-	04/05/18 02:18	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-05
Client ID: 9179-040418-1040
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 10:40
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	31.3		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-06
Client ID: 9179-040418-1045
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 10:45
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	34.6		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-07
Client ID: 9179-040418-1050
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 10:50
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.5		%	0.100	NA	1	-	04/05/18 02:18	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-08
Client ID: 9179-040418-1055
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 10:55
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	29.8		%	0.100	NA	1	-	04/05/18 02:18	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-09
Client ID: 9179-040418-1110
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 11:10
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	30.5		%	0.100	NA	1	-	04/05/18 02:18	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-10
Client ID: 9179-040418-1115
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 11:15
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	40.6		%	0.100	NA	1	-	04/05/18 02:18	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-11
Client ID: 9179-040418-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 00:01
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	25.9		%	0.100	NA	1	-	04/05/18 02:18	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-12
Client ID: 9179-040418-1250
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 12:50
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.4		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-13
Client ID: 9179-040418-1255
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 12:55
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.9		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-14
Client ID: 9179-040418-1300
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 13:00
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.0		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-15
Client ID: 9179-040418-1305
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 13:05
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.7		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-16
Client ID: 9179-040418-1320
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 13:20
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.1		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-17
Client ID: 9179-040418-1325
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 13:25
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.5		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-18
Client ID: 9179-040418-1330
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 13:30
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.0		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-19
Client ID: 9179-040418-1335
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 13:35
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	36.7		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-20
Client ID: 9179-040418-1340
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 13:40
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	19.4		%	0.100	NA	1	-	04/05/18 02:18	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-21
Client ID: 9179-040418-1345
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 13:45
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	42.7		%	0.100	NA	1	-	04/05/18 02:18	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-22
Client ID: 9179-040418-1350
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 13:50
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	25.9		%	0.100	NA	1	-	04/05/18 02:18	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-23
Client ID: 9179-040418-1355
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 13:55
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	34.7		%	0.100	NA	1	-	04/05/18 02:18	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-24
Client ID: 9179-040418-1400
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 14:00
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	27.6		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-25
Client ID: 9179-040418-1405
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 14:05
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	26.0		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-26
Client ID: 9179-040418-1410
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 14:10
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	54.3		%	0.100	NA	1	-	04/05/18 02:18	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811684-27
Client ID: 9179-040418-1415
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/04/18 14:15
Date Received: 04/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	61.2		%	0.100	NA	1	-	04/05/18 02:18	121,2540G	RI

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03-04,07-11,20-23,26-27 QC Batch ID: WG1103647-1 QC Sample: L1811684-27 Client ID: 9179-040418-1415						
Solids, Total	61.2	66.5	%	8		20
General Chemistry - Westborough Lab Associated sample(s): 01-02,05-06,12-19,24-25 QC Batch ID: WG1104041-1 QC Sample: L1811684-01 Client ID: 9179-040418-1000						
Solids, Total	18.8	18.7	%	1		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1811684-01A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-01B	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-02A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-02B	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-03A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-04A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-05A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-05B	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-06A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-06B	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-07A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-07B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-08A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-08B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-09A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-09B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-10A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-10B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-11A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-11B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-12A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1811684-12B	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-13A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-13B	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-14A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-14B	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-15A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-15B	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-16A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-16B	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-17A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-17B	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-18A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-18B	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-19A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-19B	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-20A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-20B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-21A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-21B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-22A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-22B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-23A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-23B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-24A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-24B	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-25A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-25B	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-26A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811684
Report Date: 04/06/18

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L1811684-26B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-27A	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-27A1	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-27A2	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1811684-27B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-27B1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)
L1811684-27B2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		CR-TI(180),NI-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1811684
Project Number:	128598-003	**Report Date:**	04/06/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1811684
Project Number:	128598-003	**Report Date:**	04/06/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1811684
Project Number:	128598-003	**Report Date:**	04/06/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

(106)

CHAIN OF CUSTODY

Page 1 of 3

Date Rec'd in Lab: 4/4/18

ALPHA Job#: L1811689

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

CAUTION SAMPLES MAY CONTAIN BROKEN GLASS

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Sample Specific Comments	Total Bottles
11689 -01	9179-040418-1000	4/4/18	1000	SO	DG	3.5		X		X					HOLD	
-02	9179-040418-1005		1005			5		X		X					HOLD	
-03	9179-040418-1010		1010			3		X		X						
-04	9179-040418-1015		1015			5		X		X						
-05	9179-040418-1040		1040			3		X		X					HOLD	
-06	9179-040418-1045		1045			5		X		X					HOLD	
-07	9179-040418-1050		1050			3		X		X						
-08	9179-040418-1055		1055			5		X		X						
-09	9179-040418-1110	"	1110	"	"	2		X		X						
-10	9179-040418-1115	4/4/18	1115	SO	DG	4		X		X						

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 2 of 3

Date Rec'd in Lab: 4/4/18

ALPHA Job #: L1811684

H&A Information
- H&A Client: Racer
- H&A Address: 6500 Rockslide Rd
- Cleveland OH 44131
- H&A Phone: 216-706-1314
- H&A Fax:
- H&A Email: dputz@haleyaldrich.com

Project Information
- Project Name: Racer
- Project Location: Ewing Township Industrial Land, Ewing, NJ
- Project #: 128598-003
- (Use Project name as Project #) ☐
- Project Manager: Dan Putz
- ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
- Standard ☐ Due Date:
- Rush (only if pre approved) ☑ # of Days: 1

Deliverables
- ☑ Email ☐ Fax
- ☐ EQuIS (1 File) ☑ EQuIS (4 File)
- ☐ Other:

Billing Information
- ☐ Same as Client Info
- PO #

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
- ☐ NJ ☐ NY
- ☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

CAUTION - SAMPLES MAY CONTAIN BROKEN GLASS

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
- ☐ Done
- ☐ Lab to do

Preservation
- ☐ Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Total Bottles	Sample Specific Comments
11644 .01	9179-040418-0001	4/4/18	0001	SO	DG			X		X						Duplicate
.02	9179-040418-1250		1250			5		X		X						HOLD
.03	9179-040418-1255		1255			5.5		X		X						HOLD
.04	9179-040418-1300		1300			3		X		X						HOLD
.05	9179-040418-1305		1305			5		X		X						HOLD
.06	9179-040418-1320		1320			3		X		X						HOLD
.07	9179-040418-1325		1325			4		X		X						HOLD
.08	9179-040418-1330		1330			3		X		X						HOLD
.09	9179-040418-1335	↓	1335	↓	↓	4		X		X						HOLD
.10	9179-040418-1340	4/4/18	1340	SO	DG	3.5		X		X						
	Container Type							A		A						
	Preservative															

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	4/4/18 1200		
AAL-4/4/18	4/4/18 1850	AAL-4/4/18	4/4/18 1850
	4/4/18 2230		4/4/18 2230

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

CHAIN OF CUSTODY

Page 3 of 3

Date Rec'd in Lab: 4/4/18

ALPHA Job #: L1811684

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
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H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Sample Specific Comments
11684 -21	9179-040418-1345	4/4/18	1345	SO	DO	5		X		X					
-22	9179-040418-1350	"	1350	"	"	3.5		X		X					
-23	9179-040418-1355	"	1355	"	"	5		X		X					
-24	9179-040418-1400	"	1400	"	"	3		X		X					HOLD
-25	9179-040418-1405	"	1405	"	"	5		X		X					HOLD
-26	9179-040418-1410	"	1410	"	"	3		X		X					
-27	9179-040418-1415	4/4/18	1415	SO	DO	5		X		X					MS/MSD

Sample Filtration

☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottles

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	4/4/18 1200		
Gina-AAL	4/4/18 1850	Gina-AAL	4/4/18 17:00
			4/4/18 1900
			4/4/18 2230

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1811748
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	04/06/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811748
Report Date: 04/06/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1811748-01	9179-040518-0845	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/05/18 08:45	04/05/18
L1811748-02	9179-040518-0850	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/05/18 08:50	04/05/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811748
Report Date: 04/06/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811748
Report Date: 04/06/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	RACER	**Lab Number:**	L1811748
Project Number:	128598-003	**Report Date:**	04/06/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Total Metals

In reference to question 4:

The WG1104055-3 MS recovery for lead (542%), performed on L1811748-01 (9179-040518-0845), does not apply because the sample concentration is greater than four times the spike amount added.

The WG1104055-4 Laboratory Duplicate RPD for lead (145%), performed on L1811748-01 (9179-040518-0845), is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Cripps Melissa Cripps

Title: Technical Director/Representative Date: 04/06/18

METALS

Project Name: RACER
Lab Number: L1811748
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811748-01
Client ID: 9179-040518-0845
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 68%

Date Collected: 04/05/18 08:45
Date Received: 04/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	276		mg/kg	2.86	0.153	1	04/06/18 05:10	04/06/18 08:33	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1811748
Project Number: 128598-003
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811748-02
Client ID: 9179-040518-0850
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 65%

Date Collected: 04/05/18 08:50
Date Received: 04/05/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	755		mg/kg	3.00	0.161	1	04/06/18 05:10	04/06/18 08:51	EPA 3050B	1,6010C	PE

Project Name: RACER
Project Number: 128598-003
Lab Number: L1811748
Report Date: 04/06/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1104055-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	04/06/18 05:10	04/06/18 08:25	1,6010C	PE

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1811748

Report Date: 04/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1104055-2 SRM Lot Number: D098-540								
Lead, Total	96		-		82-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811748
Report Date: 04/06/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1104055-3 QC Sample: L1811748-01 Client ID: 9179-040518-0845												
Lead, Total	276.	58.8	595	**542**	Q	-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811748
Report Date: 04/06/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1104055-4 QC Sample: L1811748-01 Client ID: 9179-040518-0845						
Lead, Total	276.	1740	mg/kg	**145**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811748
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811748-01
Client ID: 9179-040518-0845
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/05/18 08:45
Date Received: 04/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.7		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811748
Report Date: 04/06/18

SAMPLE RESULTS

Lab ID: L1811748-02
Client ID: 9179-040518-0850
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/05/18 08:50
Date Received: 04/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.7		%	0.100	NA	1	-	04/06/18 02:16	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1811748
Report Date: 04/06/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	*Custody Seal*
A	Absent

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L1811748-01A	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L1811748-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1811748-02A	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L1811748-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1811748
Project Number:	128598-003	**Report Date:**	04/06/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1811748
Project Number:	128598-003	**Report Date:**	04/06/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1811748
Project Number:	128598-003	**Report Date:**	04/06/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 1 of 1

Date Rec'd in Lab 4/5/18

ALPHA Job # L1811748

H&A Information
H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information
Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project # 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables
☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
CAUTION Samples may contain broken glass!

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Total Bottles	Sample Specific Comments
L1748-01	9179-040518-0845	4/5/18	845	SO	DG	8.5					X					
02	9179-040518-0850	4/5/18	850	SO	DG	9.0					X					

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	4/5/18 1100		4/5/18 11:00
AAL-4/5/18	4/5/18 1620		4/5/18 1620
	4/5/18 2345		4/5/18 2345

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1812048
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	04/09/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812048
Report Date: 04/09/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1812048-01	9179-040618-1500	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/06/18 15:00	04/06/18
L1812048-02	9179-040618-1505	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/06/18 15:05	04/06/18
L1812048-03	9179-040618-1510	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/06/18 15:10	04/06/18
L1812048-04	9179-040618-1515	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/06/18 15:15	04/06/18
L1812048-05	9179-040618-1520	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/06/18 15:20	04/06/18
L1812048-06	9179-040618-1525	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/06/18 15:25	04/06/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812048
Report Date: 04/09/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812048
Report Date: 04/09/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	RACER	**Lab Number:**	L1812048
Project Number:	128598-003	**Report Date:**	04/09/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

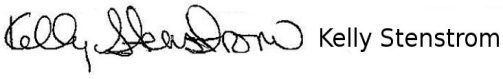
Total Metals

In reference to question 4:

The WG1104409-3 MS recoveries for chromium (0%), and nickel (0%), performed on L1812048-01 (9179-040618-1500), do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1104409-4 Laboratory Duplicate RPD for chromium (22%), performed on L1812048-01 (9179-040618-1500), is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative Date: 04/09/18

METALS

Project Name: RACER
Lab Number: L1812048
Project Number: 128598-003
Report Date: 04/09/18

SAMPLE RESULTS

Lab ID: L1812048-01
Client ID: 9179-040618-1500
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 78%

Date Collected: 04/06/18 15:00
Date Received: 04/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	879		mg/kg	0.495	0.048	1	04/07/18 07:20	04/07/18 11:43	EPA 3050B	1,6010C	PE
Nickel, Total	2310		mg/kg	1.24	0.120	1	04/07/18 07:20	04/07/18 11:43	EPA 3050B	1,6010C	PE

Project Name: RACER **Lab Number:** L1812048

Project Number: 128598-003 **Report Date:** 04/09/18

SAMPLE RESULTS

Lab ID: L1812048-02 Date Collected: 04/06/18 15:05

Client ID: 9179-040618-1505 Date Received: 04/06/18

Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	2620		mg/kg	0.571	0.055	1	04/07/18 07:20	04/07/18 12:06	EPA 3050B	1,6010C	PE
Nickel, Total	5310		mg/kg	1.43	0.138	1	04/07/18 07:20	04/07/18 12:06	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1812048
Project Number: 128598-003
Report Date: 04/09/18

SAMPLE RESULTS

Lab ID: L1812048-03
Client ID: 9179-040618-1510
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 66%

Date Collected: 04/06/18 15:10
Date Received: 04/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	2180		mg/kg	0.585	0.056	1	04/07/18 07:20	04/07/18 12:11	EPA 3050B	1,6010C	PE
Nickel, Total	210		mg/kg	1.46	0.142	1	04/07/18 07:20	04/07/18 12:11	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1812048
Project Number: 128598-003
Report Date: 04/09/18

SAMPLE RESULTS

Lab ID: L1812048-04
Client ID: 9179-040618-1515
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 73%

Date Collected: 04/06/18 15:15
Date Received: 04/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	620		mg/kg	0.518	0.050	1	04/07/18 07:20	04/07/18 12:16	EPA 3050B	1,6010C	PE
Nickel, Total	958		mg/kg	1.29	0.125	1	04/07/18 07:20	04/07/18 12:16	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1812048
Project Number: 128598-003
Report Date: 04/09/18

SAMPLE RESULTS

Lab ID: L1812048-05
Client ID: 9179-040618-1520
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 76%

Date Collected: 04/06/18 15:20
Date Received: 04/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1480		mg/kg	0.507	0.049	1	04/07/18 07:20	04/07/18 12:30	EPA 3050B	1,6010C	PE
Nickel, Total	1460		mg/kg	1.27	0.123	1	04/07/18 07:20	04/07/18 12:30	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1812048
Project Number: 128598-003
Report Date: 04/09/18

SAMPLE RESULTS

Lab ID: L1812048-06
Client ID: 9179-040618-1525
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 68%

Date Collected: 04/06/18 15:25
Date Received: 04/06/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1030		mg/kg	0.573	0.055	1	04/07/18 07:20	04/07/18 12:34	EPA 3050B	1,6010C	PE
Nickel, Total	813		mg/kg	1.43	0.139	1	04/07/18 07:20	04/07/18 12:34	EPA 3050B	1,6010C	PE

Project Name: RACER
Project Number: 128598-003
Lab Number: L1812048
Report Date: 04/09/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1104409-1										
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/07/18 07:20	04/07/18 11:34	1,6010C	PE
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/07/18 07:20	04/07/18 11:34	1,6010C	PE

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1812048

Report Date: 04/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1104409-2 SRM Lot Number: D098-540								
Chromium, Total	89		-		83-119	-		
Nickel, Total	88		-		82-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812048
Report Date: 04/09/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1104409-3 QC Sample: L1812048-01 Client ID: 9179-040618-1500												
Chromium, Total	879.	19.6	667	**0**	Q	-	-		75-125	-		20
Nickel, Total	2310	49.1	1170	**0**	Q	-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812048
Report Date: 04/09/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1104409-4 QC Sample: L1812048-01 Client ID: 9179-040618-1500						
Chromium, Total	879.	1100	mg/kg	**22**	Q	20
Nickel, Total	2310	2150	mg/kg	7		20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812048
Report Date: 04/09/18

SAMPLE RESULTS

Lab ID: L1812048-01
Client ID: 9179-040618-1500
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/06/18 15:00
Date Received: 04/06/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.6		%	0.100	NA	1	-	04/07/18 08:46	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812048
Report Date: 04/09/18

SAMPLE RESULTS

Lab ID: L1812048-02
Client ID: 9179-040618-1505
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/06/18 15:05
Date Received: 04/06/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.7		%	0.100	NA	1	-	04/07/18 08:46	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812048
Report Date: 04/09/18

SAMPLE RESULTS

Lab ID: L1812048-03
Client ID: 9179-040618-1510
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/06/18 15:10
Date Received: 04/06/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	65.8		%	0.100	NA	1	-	04/07/18 08:46	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812048
Report Date: 04/09/18

SAMPLE RESULTS

Lab ID: L1812048-04
Client ID: 9179-040618-1515
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/06/18 15:15
Date Received: 04/06/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.9		%	0.100	NA	1	-	04/07/18 08:46	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812048
Report Date: 04/09/18

SAMPLE RESULTS

Lab ID: L1812048-05
Client ID: 9179-040618-1520
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/06/18 15:20
Date Received: 04/06/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.8		%	0.100	NA	1	-	04/07/18 08:46	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812048
Report Date: 04/09/18

SAMPLE RESULTS

Lab ID: L1812048-06
Client ID: 9179-040618-1525
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/06/18 15:25
Date Received: 04/06/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.9		%	0.100	NA	1	-	04/07/18 08:46	121,2540G	RI

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812048
Report Date: 04/09/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812048-01A	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		TS(7)
L1812048-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		CR-TI(180),NI-TI(180)
L1812048-02A	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		TS(7)
L1812048-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		CR-TI(180),NI-TI(180)
L1812048-03A	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		TS(7)
L1812048-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		CR-TI(180),NI-TI(180)
L1812048-04A	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		TS(7)
L1812048-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		CR-TI(180),NI-TI(180)
L1812048-05A	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		TS(7)
L1812048-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		CR-TI(180),NI-TI(180)
L1812048-06A	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		TS(7)
L1812048-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		CR-TI(180),NI-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1812048
Project Number:	128598-003	**Report Date:**	04/09/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1812048
Project Number:	128598-003	**Report Date:**	04/09/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1812048
Project Number:	128598-003	**Report Date:**	04/09/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 1 of 1

Date Rec'd in Lab: 4/16/18

ALPHA Job #: L1812048

H&A Information
- H&A Client: Racer
- H&A Address: 6500 Rockslide Rd
- Cleveland OH 44131
- H&A Phone: 216-706-1314
- H&A Fax:
- H&A Email: dputz@haleyaldrich.com

Project Information
- Project Name: Racer
- Project Location: Ewing Township Industrial Land, Ewing, NJ
- Project #: 128598-003
- (Use Project name as Project #) ☐
- Project Manager: Dan Putz
- ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time
- Standard ☐ Due Date:
- Rush (only if pre approved) ☑ # of Days: 1

Deliverables
- ☑ Email ☐ Fax
- ☐ EQuIS (1 File) ☑ EQuIS (4 File)
- ☐ Other:

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Billing Information
- ☐ Same as Client Info
- PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
- ☐ NJ ☐ NY
- ☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
- ☐ Done
- ☐ Lab to do

Preservation
- ☐ Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)	Total Bottles	Sample Specific Comments
12048-01	9179-040618-1500	4/6/18	1500	SO	DP	3.5		X		X			
02	9179-040618-1505	"	1505	"	"	5.0		X		X			
03	9179-040618-1510	"	1510	"	"	3.0		X		X			
04	9179-040618-1515	"	1515	"	"	5.0		X		X			
05	9179-040618-1520	"	1520	"	"	3.0		X		X			
06	9179-040618-1525	4/6/18	1525	SO	DP	5.0		X		X			

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type

Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	4/6/18 1610	AAL	4/6/18 16:10
AAL	4/6/18 18:15	Daniel Santos AAL	4/6/18 1800
Daniel Santos AAL	4/6/18 2215		4/6/18 2218

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1812223
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	04/10/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812223
Report Date: 04/10/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1812223-01	9179-040918-0830	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/09/18 08:30	04/09/18
L1812223-02	9179-040918-0835	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/09/18 08:35	04/09/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812223
Report Date: 04/10/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812223
Report Date: 04/10/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812223
Report Date: 04/10/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Total Metals

In reference to question 4:

The WG1105011-3 MS recovery for lead (696%), performed on L1812223-01 (9179-040918-0830), does not apply because the sample concentration is greater than four times the spike amount added.

The WG1105011-4 Laboratory Duplicate RPD for lead (56%), performed on L1812223-01 (9179-040918-0830), is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Amita Naik

Title: Technical Director/Representative Date: 04/10/18

METALS

Project Name: RACER
Lab Number: L1812223
Project Number: 128598-003
Report Date: 04/10/18

SAMPLE RESULTS

Lab ID: L1812223-01
Client ID: 9179-040918-0830
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 68%

Date Collected: 04/09/18 08:30
Date Received: 04/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	307		mg/kg	2.83	0.152	1	04/10/18 05:20	04/10/18 09:44	EPA 3050B	1,6010C	LC

Project Name: RACER
Lab Number: L1812223
Project Number: 128598-003
Report Date: 04/10/18

SAMPLE RESULTS

Lab ID: L1812223-02
Client ID: 9179-040918-0835
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 68%

Date Collected: 04/09/18 08:35
Date Received: 04/09/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	211		mg/kg	2.80	0.150	1	04/10/18 05:20	04/10/18 09:59	EPA 3050B	1,6010C	LC

Project Name: RACER
Project Number: 128598-003
Lab Number: L1812223
Report Date: 04/10/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1105011-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	04/10/18 05:20	04/10/18 08:48	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1812223

Report Date: 04/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1105011-2 SRM Lot Number: D098-540								
Lead, Total	89		-		82-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812223
Report Date: 04/10/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1105011-3 QC Sample: L1812223-01 Client ID: 9179-040918-0830												
Lead, Total	307.	59.2	719	**696**	Q	-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812223
Report Date: 04/10/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1105011-4 QC Sample: L1812223-01 Client ID: 9179-040918-0830						
Lead, Total	307.	548	mg/kg	**56**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812223
Report Date: 04/10/18

SAMPLE RESULTS

Lab ID: L1812223-01
Client ID: 9179-040918-0830
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/09/18 08:30
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.0		%	0.100	NA	1	-	04/10/18 04:31	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812223
Report Date: 04/10/18

SAMPLE RESULTS

Lab ID: L1812223-02
Client ID: 9179-040918-0835
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/09/18 08:35
Date Received: 04/09/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.3		%	0.100	NA	1	-	04/10/18 04:31	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812223
Report Date: 04/10/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812223-01A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1812223-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)
L1812223-02A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1812223-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1812223
Project Number:	128598-003	**Report Date:**	04/10/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1812223
Project Number:	128598-003	**Report Date:**	04/10/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1812223
Project Number:	128598-003	**Report Date:**	04/10/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page 1 of 1

Date Rec'd in Lab: 4/9/18

ALPHA Job #: L1812223

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Sample Specific Comments	Total Bottles
12223-01	9179-040918-0830	4/9/18	830	SO	DG	8.5					X					
02	9179-040918-0835	4/9/18	835	SO	DG	9.0					X					

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	4/9/18	Mike-AAL 4/9/18	16:60
Mike-AAL 4/9/18	18:35	Daniel Santos AAL	4/9/18 1640
Daniel Santos AAL	4/9/18 22:30		4/9/18 2320

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

ANALYTICAL REPORT

Lab Number:	L1812390
Client:	Haley & Aldrich, Inc. 6500 Rockside Road Independence, OH 44131
ATTN:	Dan Putz
Phone:	(216) 706-1314
Project Name:	RACER
Project Number:	128598-003
Report Date:	04/11/18

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812390
Report Date: 04/11/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1812390-01	9179-041018-0001	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/10/18 00:01	04/10/18
L1812390-02	9179-041018-1100	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/10/18 11:00	04/10/18
L1812390-03	9179-041018-1500	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/10/18 15:00	04/10/18
L1812390-04	9179-041018-1505	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/10/18 15:05	04/10/18
L1812390-05	9179-041018-1510	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/10/18 15:10	04/10/18
L1812390-06	9179-041018-1515	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/10/18 15:15	04/10/18
L1812390-07	9179-041018-1530	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/10/18 15:30	04/10/18
L1812390-08	9179-041018-1535	SOIL	EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ	04/10/18 15:35	04/10/18

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812390
Report Date: 04/11/18

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	YES

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812390
Report Date: 04/11/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: RACER **Lab Number:** L1812390
Project Number: 128598-003 **Report Date:** 04/11/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

Total Metals

In reference to question 4:

The WG1105418-3/-4 MS/MSD recoveries for chromium (0%/0%) and nickel (4%/0%), performed on L1812390-06 (9179-041018-1515), do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1105418-3/-4 MS/MSD RPDs for chromium (36%) and nickel (31%), performed on L1812390-06 (9179-041018-1515), are above the acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 04/11/18

METALS

Project Name: RACER
Lab Number: L1812390
Project Number: 128598-003
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-01
Client ID: 9179-041018-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 77%

Date Collected: 04/10/18 00:01
Date Received: 04/10/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1080		mg/kg	0.512	0.049	1	04/11/18 06:30	04/11/18 08:50	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1812390
Project Number: 128598-003
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-02
Client ID: 9179-041018-1100
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 04/10/18 11:00
Date Received: 04/10/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1370		mg/kg	0.495	0.048	1	04/11/18 06:30	04/11/18 08:55	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1812390
Project Number: 128598-003
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-03
Client ID: 9179-041018-1500
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 76%

Date Collected: 04/10/18 15:00
Date Received: 04/10/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	343		mg/kg	0.497	0.048	1	04/11/18 06:30	04/11/18 09:37	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1812390
Project Number: 128598-003
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-04
Client ID: 9179-041018-1505
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 71%

Date Collected: 04/10/18 15:05
Date Received: 04/10/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	614		mg/kg	0.545	0.052	1	04/11/18 06:30	04/11/18 09:42	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1812390
Project Number: 128598-003
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-05
Client ID: 9179-041018-1510
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 04/10/18 15:10
Date Received: 04/10/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	416		mg/kg	0.502	0.048	1	04/11/18 06:30	04/11/18 09:47	EPA 3050B	1,6010C	PE
Nickel, Total	702		mg/kg	1.26	0.122	1	04/11/18 06:30	04/11/18 09:47	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1812390
Project Number: 128598-003
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-06
Client ID: 9179-041018-1515
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 76%

Date Collected: 04/10/18 15:15
Date Received: 04/10/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	249		mg/kg	0.509	0.049	1	04/11/18 06:30	04/11/18 08:21	EPA 3050B	1,6010C	PE
Nickel, Total	366		mg/kg	1.27	0.123	1	04/11/18 06:30	04/11/18 08:21	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1812390
Project Number: 128598-003
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-07
Client ID: 9179-041018-1530
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 79%

Date Collected: 04/10/18 15:30
Date Received: 04/10/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	442		mg/kg	0.500	0.048	1	04/11/18 06:30	04/11/18 09:52	EPA 3050B	1,6010C	PE
Nickel, Total	599		mg/kg	1.25	0.121	1	04/11/18 06:30	04/11/18 09:52	EPA 3050B	1,6010C	PE

Project Name: RACER
Lab Number: L1812390
Project Number: 128598-003
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-08
Client ID: 9179-041018-1535
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ
Sample Depth:
Matrix: Soil
Percent Solids: 67%

Date Collected: 04/10/18 15:35
Date Received: 04/10/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	590		mg/kg	0.588	0.056	1	04/11/18 06:30	04/11/18 09:57	EPA 3050B	1,6010C	PE
Nickel, Total	678		mg/kg	1.47	0.142	1	04/11/18 06:30	04/11/18 09:57	EPA 3050B	1,6010C	PE

Project Name: RACER
Project Number: 128598-003
Lab Number: L1812390
Report Date: 04/11/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1105418-1										
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/11/18 06:30	04/11/18 08:12	1,6010C	PE
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/11/18 06:30	04/11/18 08:12	1,6010C	PE

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RACER

Project Number: 128598-003

Lab Number: L1812390

Report Date: 04/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1105418-2 SRM Lot Number: D098-540								
Chromium, Total	94		-		83-119	-		
Nickel, Total	92		-		82-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812390
Report Date: 04/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1105418-3 WG1105418-4 QC Sample: L1812390-06 Client ID: 9179-041018-1515												
Chromium, Total	249.	20.8	138	**0**	Q	96.2	**0**	Q	75-125	**36**	Q	20
Nickel, Total	366.	51.9	368	**4**	Q	270	**0**	Q	75-125	**31**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812390
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-01
Client ID: 9179-041018-0001
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/10/18 00:01
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.9		%	0.100	NA	1	-	04/11/18 04:57	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812390
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-02
Client ID: 9179-041018-1100
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/10/18 11:00
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.9		%	0.100	NA	1	-	04/11/18 04:57	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812390
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-03
Client ID: 9179-041018-1500
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/10/18 15:00
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.0		%	0.100	NA	1	-	04/11/18 04:57	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812390
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-04
Client ID: 9179-041018-1505
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/10/18 15:05
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.4		%	0.100	NA	1	-	04/11/18 04:57	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812390
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-05
Client ID: 9179-041018-1510
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Sample Depth:
Matrix: Soil

Date Collected: 04/10/18 15:10
Date Received: 04/10/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.6		%	0.100	NA	1	-	04/11/18 04:57	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812390
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-06
Client ID: 9179-041018-1515
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/10/18 15:15
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.1		%	0.100	NA	1	-	04/11/18 04:57	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812390
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-07
Client ID: 9179-041018-1530
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/10/18 15:30
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	04/11/18 04:57	121,2540G	CG

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812390
Report Date: 04/11/18

SAMPLE RESULTS

Lab ID: L1812390-08
Client ID: 9179-041018-1535
Sample Location: EWING TOWNSHIP INDUSTRIAL LAND, EWING, NJ

Date Collected: 04/10/18 15:35
Date Received: 04/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.0		%	0.100	NA	1	-	04/11/18 04:57	121,2540G	CG

Lab Duplicate Analysis
Batch Quality Control

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812390
Report Date: 04/11/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1105412-1 QC Sample: L1812390-06 Client ID: 9179-041018-1515						
Solids, Total	76.1	75.3	%	1		20

Project Name: RACER
Project Number: 128598-003

Lab Number: L1812390
Report Date: 04/11/18

Sample Receipt and Container Information

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1812390-01A	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1812390-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		CR-TI(180)
L1812390-02A	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1812390-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		CR-TI(180)
L1812390-03A	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1812390-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		CR-TI(180)
L1812390-04A	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1812390-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		CR-TI(180)
L1812390-05A	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1812390-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		CR-TI(180),NI-TI(180)
L1812390-06A	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1812390-06A1	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1812390-06A2	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1812390-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		CR-TI(180),NI-TI(180)
L1812390-06B1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		CR-TI(180),NI-TI(180)
L1812390-06B2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		CR-TI(180),NI-TI(180)
L1812390-07A	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1812390-07B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		CR-TI(180),NI-TI(180)
L1812390-08A	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1812390-08B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		CR-TI(180),NI-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	RACER	**Lab Number:**	L1812390
Project Number:	128598-003	**Report Date:**	04/11/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1812390
Project Number:	128598-003	**Report Date:**	04/11/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RACER	**Lab Number:**	L1812390
Project Number:	128598-003	**Report Date:**	04/11/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers: Brewer, ME 04412 — Portsmouth, NH 03801 — Mahwah, NJ 07430 — Albany, NY 12205 — Tonawanda, NY 14150 — Holmes, PA 19043

Page 1 of 1

Date Rec'd in Lab: 4/10/18

ALPHA Job #: L1812390

H&A Information

H&A Client: Racer
H&A Address: 6500 Rockslide Rd
Cleveland OH 44131
H&A Phone: 216-706-1314
H&A Fax:
H&A Email: dputz@haleyaldrich.com

Project Information

Project Name: Racer
Project Location: Ewing Township Industrial Land, Ewing, NJ
Project #: 128598-003
(Use Project name as Project #) ☐
Project Manager: Dan Putz
ALPHAQuote #: 2017-Trenton-HAI-MI

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 1

Deliverables

☑ Email ☐ Fax
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other:

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)

Note: Select State from menu & identify criteria.

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

CAUTION SAMPLES MAY CONTAIN BROKEN GLASS

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Depth	TCE (8260)	Chromium (6010)	Arsenic (6010)	Nickel (6010)	Lead (6010)				Sample Specific Comments	Total Bottles
L1812390-01	9179-041018-0001	4/10/18	0001	SO	DG			X								
-02	9179-041018-1100	4/10/18	1100	SO	DG	0.5		X								
-03	9179-041018-1500	4/10/18	1500	SO	DG	0.5		X								
-04	9179-041018-1505	4/10/18	1505	SO	DG	1.0		X								
-05	9179-041018-1510	4/10/18	1510	SO	DG	0.5		X		X						
-06	9179-041018-1515	4/10/18	1515	SO	DG	1.0		X		X					MS/MSD	
-07	9179-041018-1530	4/10/18	1530	SO	DG	~~1.5~~	(DG)	X		X					Depth was 1.5	
-08	9179-041018-1535	4/10/18	1535	SO	DG	~~3.0~~	(DG)	X		X					Depth was 3.0	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible] 1630	4/10/18	[illegible] AAL 4/10/18	16:30
[illegible] AAL 4/10/18	19:05	Daniel Santos AAL	4/10/18 19:10
Daniel Santos AAL	4/10/18 2350	[illegible]	4/10/18 22:55

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 2 (8/9/2016)

APPENDIX L

Photo Logs

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 2/20/2018
Staging and Setup



Photo 1: 2018-02-20_12:12:50
Hay bales to create contained area for excavated soil



Photo 2: 2018-02-20_12:13:53
Hay bales to create contained area for excavated soil



Photo 3: 2018-02-20_12:13:55
Hay bales to create contained area for excavated soil



Photo 4: 2018-02-20_12:18:49
Retaining wall at Southern corner of IGW-EX-A05 (SB-7-SO-7)

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 2/21/2018
Excavation: IGW-EX-A06 (SB-8-SO-14-100)



Photo 1: 20180221_080502
Silt fence sagging



Photo 2: 20180221_080518
Silt fence sagging



Photo 3: 20180221_080522
Silt fence sagging



Photo 4: 20180221_080542
Silt fence sagging



Photo 5: 20180221_080545
Silt fence sagging



Photo 6: 20180221_080547
Silt fence sagging



Photo 7: 20180221_080602
Silt fence sagging



Photo 8: 20180221_080605
Replaced silt fence



Photo 9: 20180221_080822
Silt fence sagging



Photo 10: 20180221_085917
Silt fence sagging



Photo 11: 20180221_085920(0)
Silt fence sagging



Photo 12: 20180221_103824
Replaced silt fence



Photo 13: 20180221_103846
Replaced silt fence



Photo 14: 20180221_110030
Excavation begins



Photo 15: 20180221_110403



Photo 16: 20180221_110417



Photo 17: 20180221_110855



Photo 18: 20180221_112037
Lined soil containment area



Photo 19: 20180221_112944
Blue, orange, and black striations in excavated soil



Photo 20: 20180221_114912



Photo 21: 20180221_114916
Blue, orange, and black striations visible in situ



Photo 22: 20180221_114924



Photo 23: 20180221_114926



Photo 24: 20180221_114956



Photo 25: 20180221_115754



Photo 26: 20180221_120420



Photo 27: 20180221_143331



Photo 28: 20180221_143418



Photo 29: 20180221_143827



Photo 30: 20180221_144128



Photo 31: 20180221_151036



Photo 32: 20180221_151848



Photo 33: 20180221_151926



Photo 34: 20180221_151934



Photo 35: 20180221_152626



Photo 36: 20180221_154058
24-inch concrete pipe visible on the south wall of the excavation



Photo 37: 20180221_154103

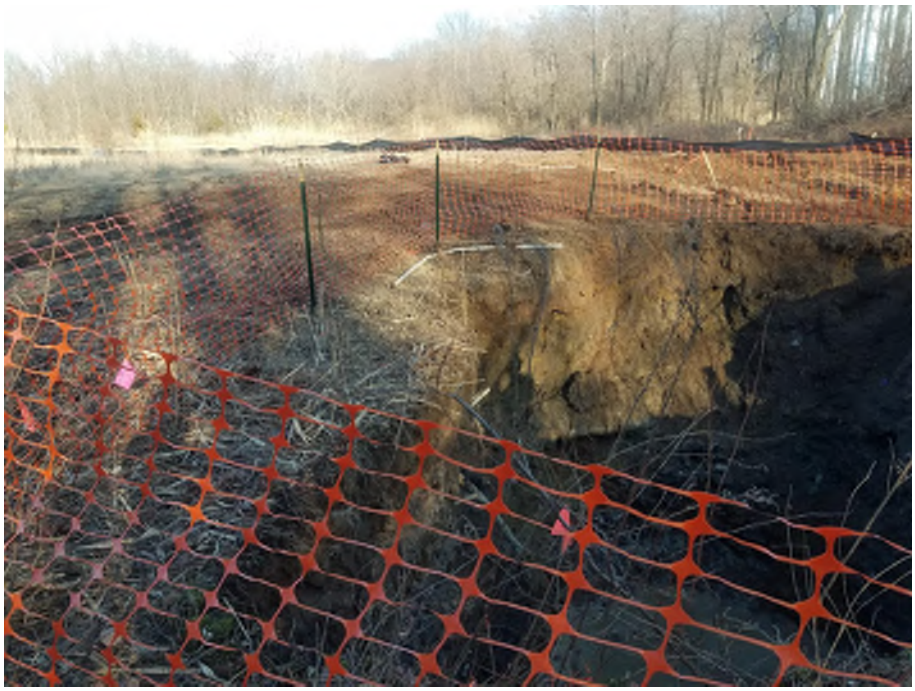


Photo 38: 20180221_154325(0)



Photo 39: 20180221_154326



Photo 40: 20180221_154932



Photo 41: 20180221_154939



Photo 42: 20180221_163746
Stockpile covered



Photo 43: 20180221_163826



Photo 44: 20180221_163836

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 2/22/2018
Excavation: IGW-EX-A04 (B8-8-2-102)



Photo 1: 20180222_091846



Photo 2: 20180222_091851



Photo 3: 20180222_093948



Photo 4: 20180222_095233



Photo 5: 20180222_121942
Looking south



Photo 6: 20180222_122001
Looking north



Photo 7: 180222100355806000



Photo 8: 180222101614712000
New fence location



Photo 9: 180222103001205000
East wall.



Photo 10: 180222103446874000
Drum Carcasses and debris

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 2/22/2018
Excavation: IGW-EX-A02-A03 (B8-6, B8-6-103)



Photo 1: 180222141625005000
Samples were collected from darker colored soil.



Photo 2: 180222142606303000
Black substance and paint-like material observed in excavation

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 2/23/2018
Excavation IGW-EX-B03 (B6-201)



Photo 1: 20180223_093940
Excavation mark-out



Photo 2: 20180223_095109
Breaking concrete prior to excavation



Photo 3: 20180223_100452



Photo 4: 20180223_100459



Photo 5: 20180223_102431
Concrete removal



Photo 6: 20180223_104947
Excavation



Photo 7: 20180223_105042



Photo 8: 20180223_105158



Photo 9: 180223101656469000
Looking west from B6-201



Photo 10: 180223101817130000
Looking south



Photo 11: 180223120210410000
Snow fence

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 2/23/2018
Excavation: IGW-EX-A01 (B8-4-100)



Photo 1: 20180223_133747
Excavation mark-out



Photo 2: 20180223_134750



Photo 3: 20180223_134753



Photo 4: 20180223_135203



Photo 5: 20180223_135412



Photo 6: 20180223_135705
Soil was fill with gravel and cobbles to 4 ft bgs



Photo 7: 180223140328685000
Gray material at 4.0 ft, oil-like odor, PID readings between 15 and 25 ppm



Photo 8: 180223143338526000
Closeup of gray, possibly stained, material

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 2/26/2018
Excavation: IGW-EX-A08 (SB-F10)



Photo 1: 20180226_073520
Excavation mark-out



Photo 2: 20180226_073521



Photo 3: 180226104528504000
Topsoil and sandy fill



Photo 4: 180226105403771000
Concrete layer from 1.5-2 ft bgs



Photo 5: 180226115549273000
Large rocks at 8 ft bgs indicated weathered bedrock



Photo 6: 180226123305539000
Completed excavation

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 2/26/2018
Excavation: IGW-EX-A07 (SB-10-SO-7-103)



Photo 1: 20180226_143748
Topsoil (sandy fill) and silver stained soil



Photo 2: 20180226_144446
Silt fence installed near Gold Run



Photo 3: 20180226_144447



Photo 4: 20180226_144448



Photo 5: LOG 1 #
Drum carcass found at 3-4 ft bgs



Photo 6: 180226152620622000
Water a similar color to stained soil



Photo 7: 180226152646924000
East sidewall

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 2/27/2018
Excavation: IGW-EX-A05 (SB-7-SO-7)



Photo 1: 20180227_083627
Construction silt fence in excavation area



Photo 2: 20180227_093640



Photo 3: 180227094855802000
Silt fence



Photo 4: 180227094932277000
Looking southwest at completed silt fence



Photo 5: 180227095917031000
0.5 to 1.5 ft



Photo 6: 180227101024263000
East sidewall



Photo 7: 180227101345088000
Matrix at 4 ft bgs



Photo 8: 20180227_110242

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 2/27/2018
Excavation: IGW-EX-A02-A03 (B8-6, B8-6-103)



Photo 1: 20180227_133349
Start of excavation; IGW-EX-B12 is in the background enclosed in snow fencing



Photo 2: 20180227_133417



Photo 3: 20180227_133425



Photo 4: 20180227_133920



Photo 5: 20180227_133949



Photo 6: 20180227_134011



Photo 7: 20180227_135755



Photo 8: 20180227_135757



Photo 9: 20180227_141020



Photo 10: 20180227_141836



Photo 11: 20180227_143055



Photo 12: 180227134948212000
Possible building footer



Photo 13: 1802271351597020000
Northeast corner of excavation



Photo 14: 1802271353538480000
Facing south from the northeast corner of excavation



Photo 15: 180227144230327000
Road between current and future excavation



Photo 16: 180227155827894000
Excavation extent looking south

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 2/27/2018
Excavation: IGW-EX-B12 (SB-8-SO-11)



Photo 1: 180227123859880000
West sidewall



Photo 2: 20180227_124450



Photo 3: 20180227_124451



Photo 4: 20180227_124452



Photo 5: 180227130232712000
East sidewall

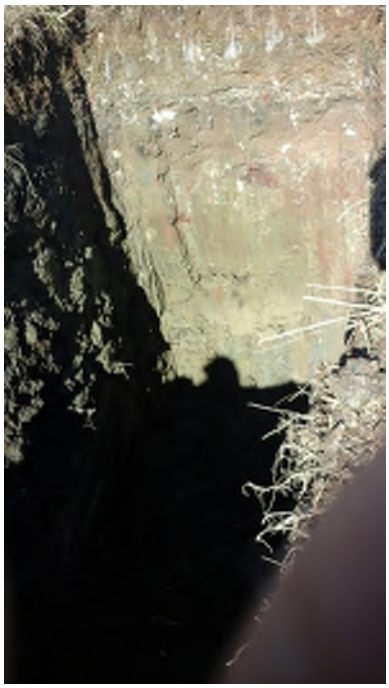


Photo 6: 180227132024742000

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 2/28/2018
Excavation: IGW-EX-A02-A03 (B8-6, B8-6-103)



Photo 1: 180228100627657000



Photo 2: 180228100704837000



Photo 3: 180228141352659000



Photo 4: 180228141801124000
Excavation with the concrete tank footer visible extending into the pit from the sidewall



Photo 5: 180228150937278000
Debris from the excavation



Photo 6: 180228151012195000
Debris from the excavation



Photo 7: 180228160253770000

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/1/2018
Soil Staging



Photo 1: 180301075833642000
Group B stockpile



Photo 2: 180301080024936000
Group B stockpile



Photo 3: 20180301_140738



Photo 4: 20180301_150802



Photo 5: 180301152924200000
Group A stockpile



Photo 6: 180301164224619000
Sandbags for stabilization against wind



Photo 7: 180301164309275000



Photo 8: 180302084023704000
Group A stockpile

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/1/2018
Excavation: IGW-EX-A02-A03 (B8-6, B8-6-103)



Photo 1: 20180301_074736



Photo 2: 180301075540303000
Lighter soil visible in excavation edge



Photo 3: 180301104217798000
Looking southwest



Photo 4: 180301104436671000
Looking south



Photo 5: 20180301_155140



Photo 6: 20180301_155424

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/1/2018
Excavation: IGW-EX-A06



Photo 1: 20180301_080753
24-inch concrete pipe visible in excavation

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/5/2018
Excavation: IGW-EX-B08-B09 (ISO6-102, ISO6-103)



Photo 1: 20180305_093651
Soil staining in excavation



Photo 2: 180305091645750000
Soil profile to 3 ft bgs



Photo 3: 20180305_100832(0)



Photo 4: 20180305_100832



Photo 5: 20180305_100835

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/5/2018
Excavation: IGW-EX-A06 (SB-8-SO-11)



Photo 1: 180305102505093000
Near MW-7a



Photo 2: 20180305_103013



Photo 3: 20180305_103015



Photo 4: 20180305_105056



Photo 5: 20180305_105131



Photo 6: 20180305_111348



Photo 7: 20180305_111503



Photo 8: 20180305_111515



Photo 9: 20180305_112302



Photo 10: 20180305_132836
24-inch concrete pipe visible in excavation just above the waterline



Photo 11: 20180305_132847



Photo 12: 20180305_132853



Photo 13: 20180305_132857



Photo 14: 20180305_132904

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/5/2018
Excavation: IGW-EX-B20



Photo 1: 20180305_133106



Photo 2: 20180305_133405



Photo 3: 20180305_133421



Photo 4: 20180305_133904
Sandy fill with cobbles from excavation to 4 ft bgs



Photo 5: 20180305_135442
Red-gray clay from deeper in the excavation



Photo 6: 20180305_135455
Black staining on soils below 4 ft bgs



Photo 7: 20180305_135920



Photo 8: 20180305_140509



Photo 9: 20180305_141022



Photo 10: 20180305_141023



Photo 11: 20180305_141423

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/6/2018
Excavation: IGW-EX-B15 (SB-10-SO-209)



Photo 1: 20180306_094516

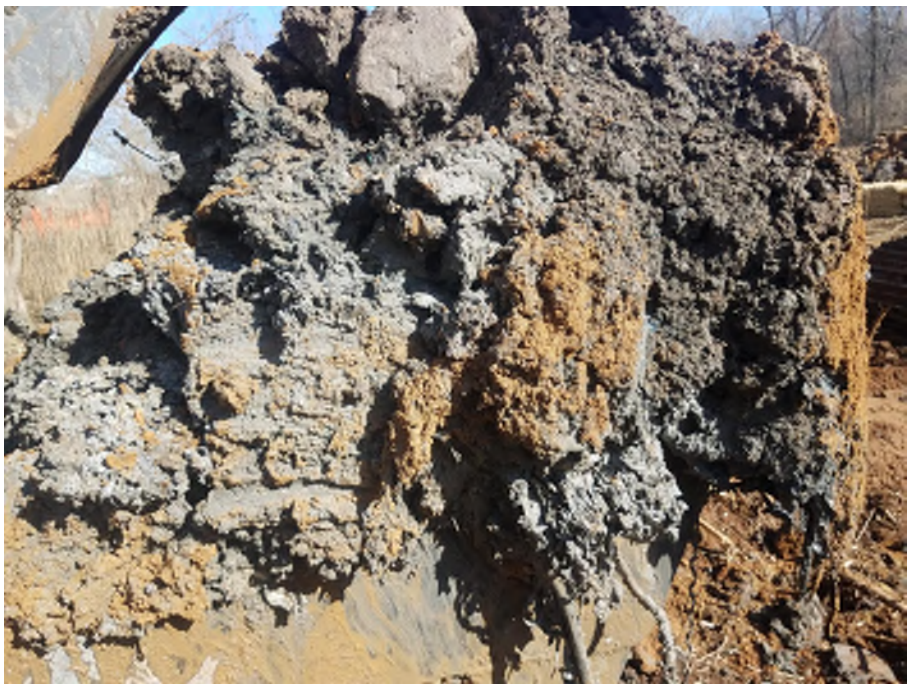


Photo 2: 20180306_094825
Gray soft clay with sludge-like texture below 4 ft bgs



Photo 3: 20180306_095054



Photo 4: 20180306_095838



Photo 5: 20180306_100132
Blue paint-like material was present in excavation



Photo 6: 180306094356536000



Photo 7: 180306104248764000

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/6/2018
Excavation: IGW-EX-B21 (SB-AOC10-2013-109)



Photo 1: 20180306_104448



Photo 2: 20180306_104452

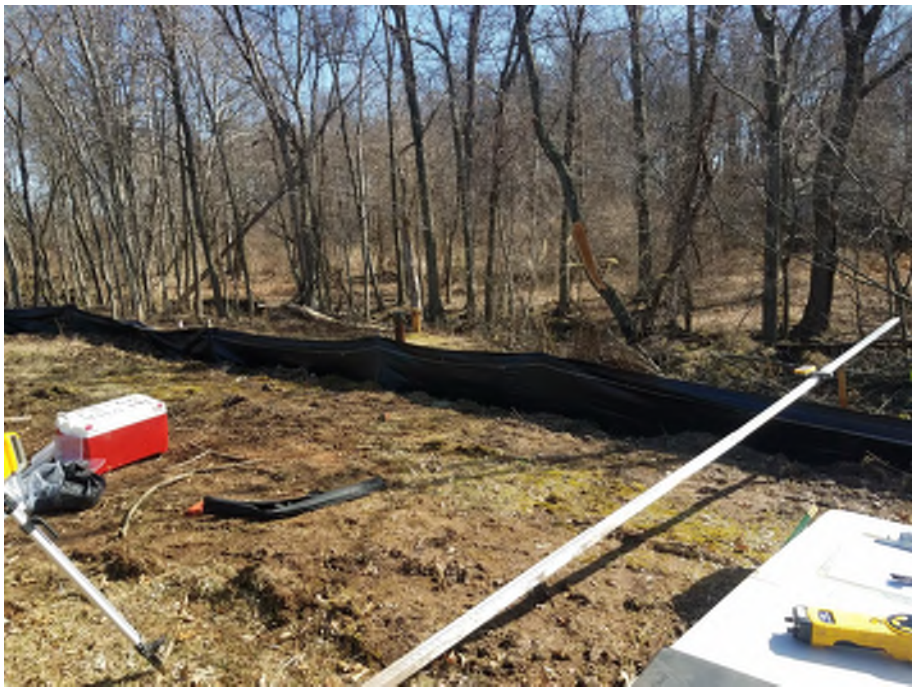


Photo 3: 20180306_104454



Photo 4: 20180306_104509



Photo 5: 20180306_105016



Photo 6: 20180306_105017



Photo 7: 20180306_105116
Gray sludge-like clay material in excavation below 3 ft bgs with similar blue paint-like material to IGW-EX-B1



Photo 8: 1803060941166490000

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/6/2018
Excavation: IGW-EX-B14 (SB-9-SO-8-A-EX1C)



Photo 1: 20180306_135825



Photo 2: 20180306_140852



Photo 3: 20180306_140853



Photo 4: 20180306_140948



Photo 5: 20180306_141322
Native clay below topsoil



Photo 6: 20180306_141323



Photo 7: 20180306_141326

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/8/2018
Excavation: IGW-EX-B17 (SB-AOC09-2013-104)



Photo 1: 20180308_103618



Photo 2: 20180308_104315



Photo 3: 20180308_104719



Photo 4: 20180308_111600



Photo 5: 20180308_111705



Photo 6: 20180308_114421



Photo 7: 20180308_114510



Photo 8: 20180308_114747
Completed excavation



Photo 9: 20180308_135724
Water table was encountered at approximately 1 ft bgs

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/8/2018
Excavation: IGW-EX-B18 (SB-AOC09-2013-104-EX1A)



Photo 1: 20180308_130132



Photo 2: 20180308_130139



Photo 3: 20180308_130618

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/8/2018
Excavation: IGW-EX-B16 (SB-AOC09-2013-102)



Photo 1: 20180308_151030



Photo 2: 20180308_151051



Photo 3: 20180308_151104



Photo 4: 20180308_151110

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/9/2018
Excavation: IGW-EX-B19 (SB-AOC09-2013-105)



Photo 1: 20180309_092234_001
Excavation mark-out



Photo 2: 20180309_092241
Soil was brown clayey topsoil overlying a red clay

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/9/2018
Excavation: IGW-EX-B07 (HSO17-A)



Photo 1: 20180309_100427
Excavation mark-out

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/12/2018
Excavation: IGW-EX-A02-A03 (B8-6, B8-6-103)



Photo 1: 20180312_094754
Backfilling excavation A02-A03



Photo 2: 20180312_145257



Photo 3: 20180312_164048



Photo 4: 20180312_164052

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/12/2018
Excavation: IGW-EX-B13 (SB-9-SO-4-A)



Photo 1: 20180312_084759



Photo 2: 20180312_091016
Profile to 3 ft bgs



Photo 3: 20180312_091019
Soil consisted primarily of brown clay with some mottling



Photo 4: 20180312_091512



Photo 5: 20180312_100002
Groundwater was encountered at approximately 7 ft bgs



Photo 6: 20180312_100154



Photo 7: 20180312_100201

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/12/2018
Excavation: IGW-EX-B22 (SB-AOC10-2013-115)



Photo 1: 20180312_103128



Photo 2: 20180312_104206



Photo 3: 20180312_104210



Photo 4: 20180312_105125



Photo 5: 20180312_110048

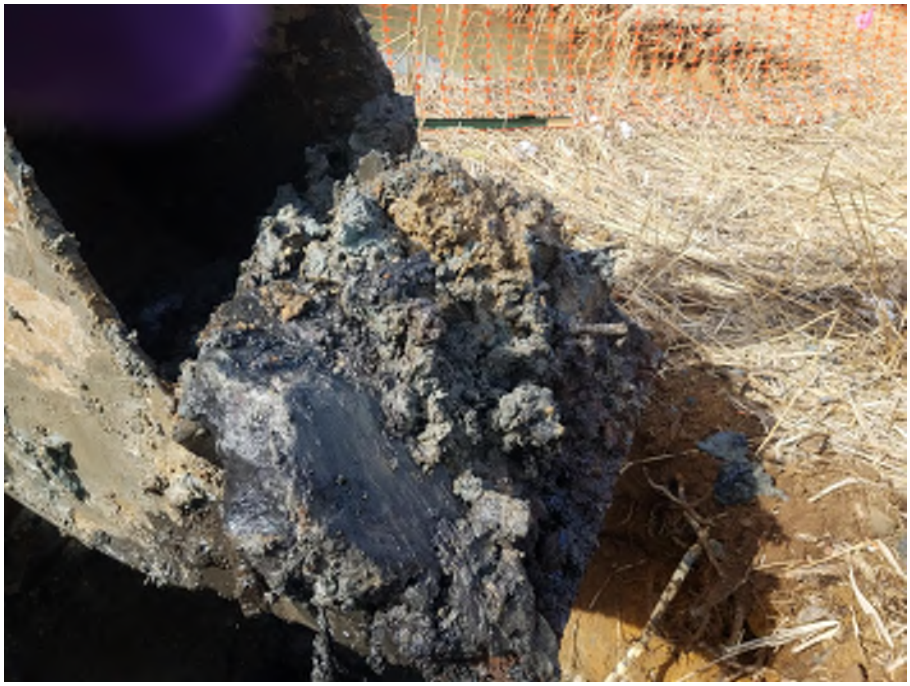


Photo 6: 20180312_110512
Gray sludge below 4 ft bgs



Photo 7: 20180312_110545
Oil-like substance noted at 6.5-7 ft bgs



Photo 8: 20180312_110548
Oil-like substance in gray sludge



Photo 9: 20180312_111156
Completed excavation



Photo 10: 20180312_145016
Sample collected to observe whether NAPL separation occurred

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/12/2018
Excavation: IGW-EX-B01 (109-1)



Photo 1: 20180312_131950



Photo 2: 20180312_132855



Photo 3: 20180312_133043
Concrete footer removed at 2 ft bgs



Photo 4: 20180312_133053



Photo 5: 20180312_133109
Concrete footer.



Photo 6: 20180312_133124



Photo 7: 20180312_133400
Soil was primarily silt to fine sand



Photo 8: 20180312_134508



Photo 9: 20180312_142652
Groundwater was observed at 12 ft bgs



Photo 1: 20180312_125308



Photo 2: 20180312_125435



Photo 3: 20180312_150317



Photo 4: 20180312_150755



Photo 5: 20180312_152425



Photo 6: 20180312_152443



Photo 7: 20180312_152551
Light-colored clay/mudstone



Photo 8: 20180312_154108



Photo 9: 20180312_154120



Photo 10: 20180312_154151
Profile

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/13/2018
Excavation: IGW-EX-A02-A03 (B8-6, B8-6-103)



Photo 1: 20180313_104646



Photo 2: 20180313_104657



Photo 3: 20180313_145428

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/13/2018
Excavation: IGW-EX-B04-B05-B06 (B9-2-100, B9-2-101, B9-2-103)



Photo 1: 20180313_090612
Excavation mark-out



Photo 2: 20180313_090617



Photo 3: 20180313_090620



Photo 4: 20180313_091655



Photo 5: 20180313_091724



Photo 6: 20180313_092445



Photo 7: 20180313_092454



Photo 8: 20180313_092458



Photo 9: 20180313_093802



Photo 10: 20180313_093811



Photo 11: 20180313_093819



Photo 12: 20180313_093826



Photo 13: 20180313_093829



Photo 14: 20180313_093834



Photo 15: 20180313_093842



Photo 16: 20180313_093925



Photo 17: 20180313_093927
Profile to 3 ft bgs



Photo 18: 20180313_093928



Photo 19: 20180313_093932



Photo 20: 20180313_102119



Photo 21: 20180313_102606



Photo 22: 20180313_102956
Asphalt-like material encountered between 4.5-5 ft bgs



Photo 23: 20180313_104404



Photo 24: 20180313_104406

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/13/2018
Excavation: IGW-EX-B02 (268-1)



Photo 1: 20180313_133122



Photo 2: 20180313_140600
Soil was predominantly clay with gravel



Photo 3: 20180313_140608



Photo 4: 20180313_141741



Photo 5: 20180313_142718



Photo 6: 20180313_142732



Photo 7: 20180313_143124



Photo 8: 20180313_150557



Photo 9: 20180313_150643



Photo 10: 20180313_151148
Completed excavation showing pipe and dark band of asphalt-like material at 1.5 ft bgs



Photo 11: 20180313_153547



Photo 12: 20180313_153550

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/13/2018
Excavation: IGW-EX-B23 (SR-1)



Photo 1: 20180313_143049



Photo 2: 20180313_143917
Dark band of asphalt-like material noted at 1.5 ft bgs



Photo 3: 20180313_150740



Photo 4: 20180313_152734



Photo 5: 20180313_153252
Soil consisted of yellow-brown clayey fill with angular cobbles to 4 ft bgs



Photo 6: 20180313_155246
Below 4 ft bgs, soil transitioned to brown clay and then to silt/sand/gravel at 10 ft bgs



Photo 7: 20180313_155257



Photo 8: 20180313_155303

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/14/2018
Backfill Activities



Photo 1: 20180314_102723
IGW-EX-A02-A03 backfill looking south



Photo 2: 20180314_144835
IGW-EX-A04 backfill looking northeast



Photo 3: 20180314_144944
IGW-EX-A06 backfill looking south



Photo 4: 20180314_144955
IGW-EX-A06 backfill looking southwest

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/14/2018
Excavation: IGW-EX-A08 (SB-F10)



Photo 1: 20180314_135126
Backfill completed



Photo 2: 20180314_135134

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/14/2018
Excavation: IGW-EX-B10 (MW-22)



Photo 1: 20180314_092353



Photo 2: 20180314_092419



Photo 3: 20180314_092643



Photo 4: 20180314_093116
Asphalt-like material encountered at 3.5 ft bgs

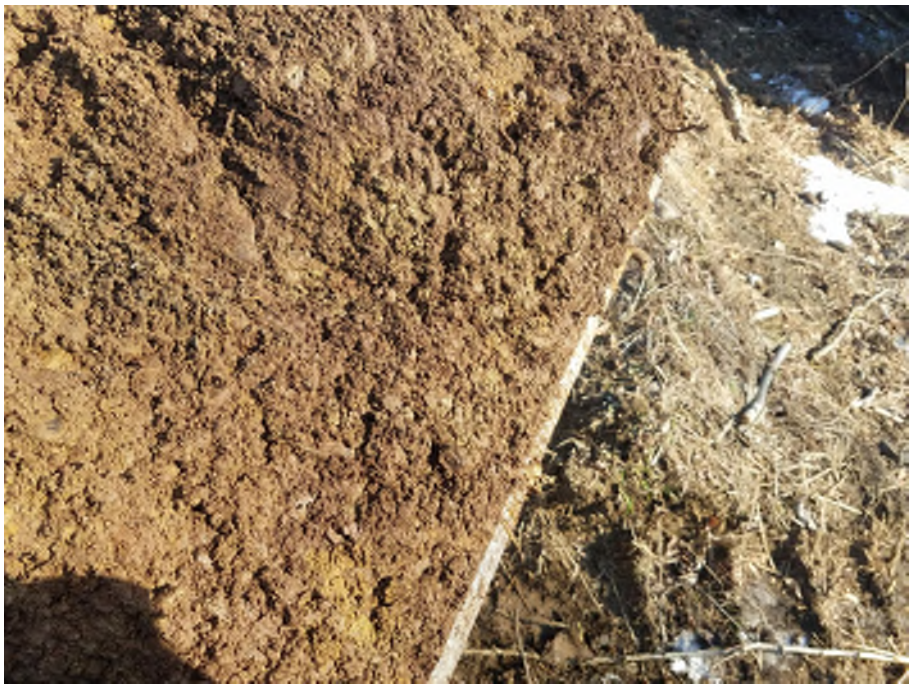


Photo 5: 20180314_094415
Soil consisted primarily of sandy gravel with some clay, cobbles, and boulders



Photo 6: 20180314_101003



Photo 7: 20180314_101006



Photo 8: 20180314_101011



Photo 9: 20180314_101845

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/15/2018
Soil Storage Areas



Photo 1: 20180315_074122
Inspecting and repairing poly sheeting on soil stockpiles



Photo 2: 20180315_101513



Photo 3: 20180315_101542



Photo 4: 20180315_101557



Photo 5: 20180315_101621
Inspect and repair poly sheeting



Photo 6: 20180315_101626
Inspect and repair poly sheeting



Photo 7: 20180315_101700
Inspect and repair poly sheeting



Photo 8: 20180315_101703
Inspect and repair poly sheeting



Photo 9: 20180315_101716
Inspect and repair poly sheeting

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/19/2018
Excavation: IGW-EX-B23 (SR-1)



Photo 1: 20180319_113125



Photo 2: 20180319_115152



Photo 3: 20180319_115200

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/19/2018
Excavation: IGW-EX-B09 (ISO6-103)



Photo 1: 20180319_094705
IGW-EX-B10 excavation limits marked



Photo 2: 20180319_094706



Photo 3: 20180319_094720



Photo 4: 20180319_095623
IGW-EX-B08



Photo 5: 20180319_095625



Photo 6: 20180319_151657
Profile of north sidewall of north extension



Photo 7: 20180319_151701



Photo 8: 20180319_155334
Profile of east sidewall of north extension, light-colored clay-like material was sampled



Photo 9: 20180319_155336



Photo 10: 20180319_155337

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/20/2018
Excavation: IGW-EX-B14 (SB-9-SO-8-A-EX1C)



Photo 1: 20180320_104943



Photo 2: 20180320_110431



Photo 3: 20180320_110921



Photo 4: 20180320_110924



Photo 5: 20180320_110933



Photo 6: 20180320_110943



Photo 7: 20180320_112231



Photo 8: 20180320_112232

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/21/2018
Excavation: IGW-EX-B22 (SB-AOC10-2013-115)



Photo 1: 20180321_081010
Excavation extension mark-out



Photo 2: 20180321_081224



Photo 3: 20180321_081900



Photo 4: 20180321_084001
When gray material was encountered, samples were taken at the top layer of it



Photo 5: 20180321_085723



Photo 6: 20180321_085733



Photo 7: 20180321_085912



Photo 8: 20180321_090053



Photo 9: 20180321_090112
A black oil-like material with a gasoline-like odor flowed into the excavation from the south and west sides of the excavation



Photo 10: 20180321_092127
A sample of the oil-like material was collected to observe NAPL separation, but none was noted



Photo 11: 20180321_092633



Photo 12: 20180321_092712



Photo 13: 20180321_092747



Photo 14: 20180321_093800



Photo 15: 20180321_102527

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/22/2018
Excavation: IGW-EX-B21 (SB-AOC10-2013-109)



Photo 1: 20180322_135344
Excavation extension mark-out



Photo 2: 20180322_135426
Began excavating the first extension of IGW-EX-B21. The previous excavation was extended 5' in the East, North, and West direction, but not south



Photo 3: 20180322_140020



Photo 4: 20180322_140045



Photo 5: 20180322_140237
Gray much below 3 ft bgs with debris including drum carcass, wood, glass, metal



Photo 6: 20180322_140246



Photo 7: 20180322_140623



Photo 8: 20180322_140951



Photo 9: 20180322_140954



Photo 10: 20180322_141405



Photo 11: 20180322_142041
Concrete block on north side of excavation could not be moved without collapsing excavation sidewall



Photo 12: 20180322_142211



Photo 13: 20180322_142820



Photo 14: 20180322_142835



Photo 15: 20180322_144030

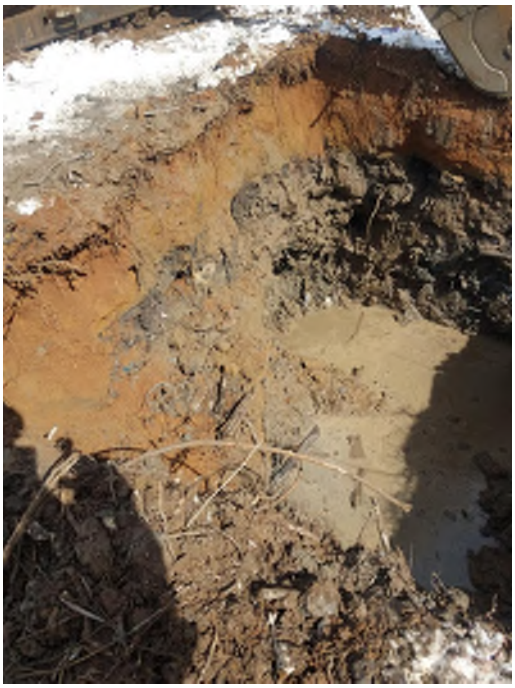


Photo 16: 20180322_144139

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/26/2018
Excavation: IGW-EX-B09 (ISO6-103)



Photo 1: 20180326_092327



Photo 2: 20180326_092328
Soil was layered sandy fill with cobbles for the first 1.5 ft, with black and brown layers. Clay at the bottom 6 in. of the excavation



Photo 3: 20180326_093939



Photo 4: 20180326_093946

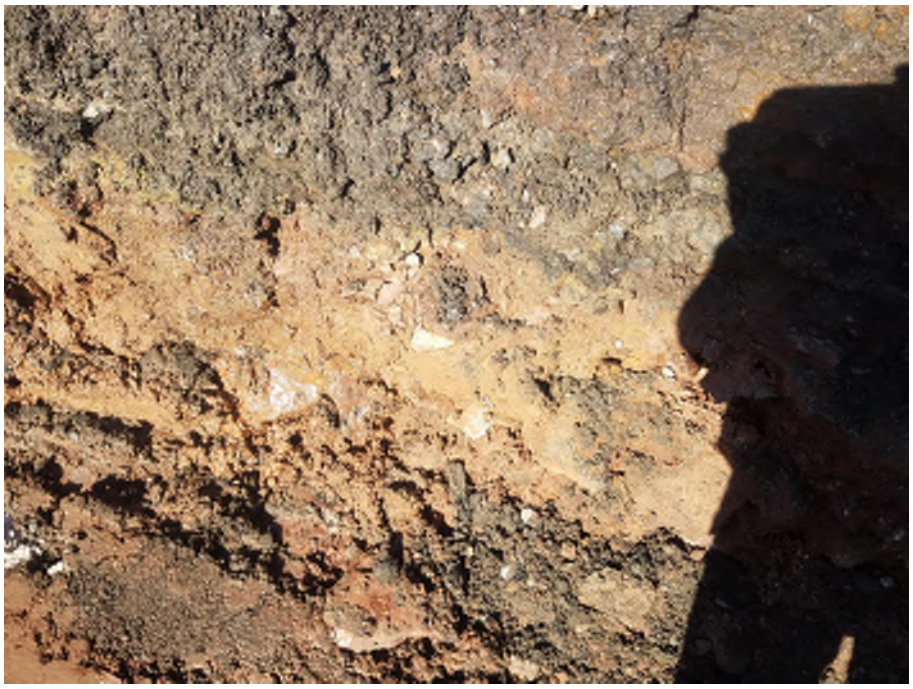


Photo 5: 20180326_093958

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 3/26/2018
Excavation: IGW-EX-B21 (SB-AOC10-2013-109)



Photo 1: 20180326_104529
Original excavation was extended 5' to the north, east, west



Photo 2: 20180326_110424



Photo 3: 20180326_110511



Photo 4: 20180326_110514
First 3-4' of topsoil was treated as clean and stockpiled separately



Photo 5: 20180326_111452

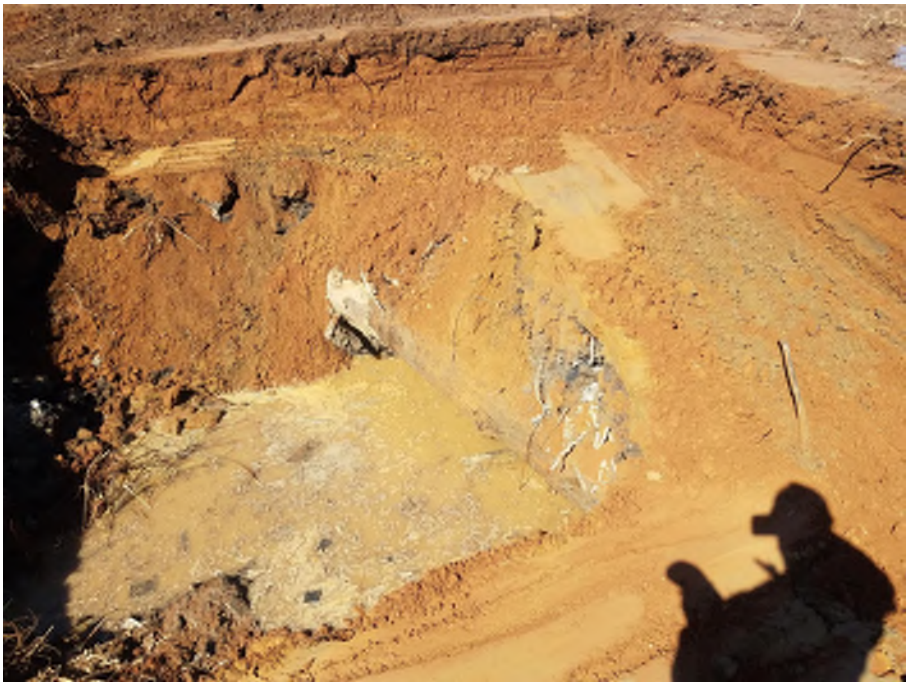


Photo 6: 20180326_112121



Photo 7: 20180326_131519



Photo 8: 20180326_131522
Excavation below 3' was gray sludge with debris, broken glass, drum carcass, wood



Photo 9: 20180326_134452
A tree was broken and partly removed

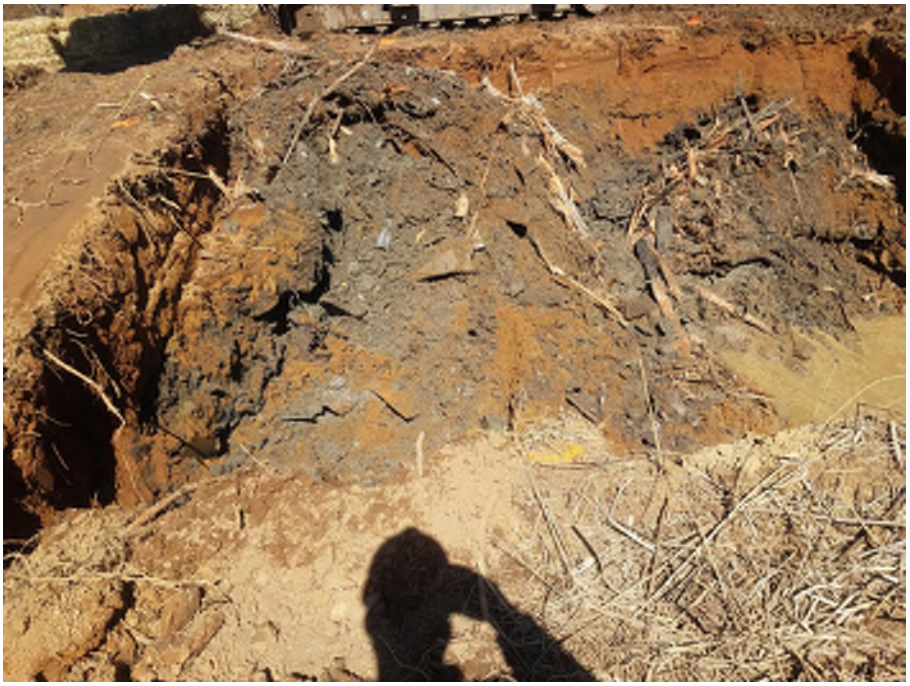


Photo 10: 20180326_135122



Photo 11: 20180326_135338



Photo 12: 20180326_141625



Photo 13: 20180326_145730



Photo 14: 20180326_150203
Samples were collected from sludge material

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 4/03/2018
Excavation: IGW-EX-B21 (SB-AOC10-2013-109)



Photo 1: 20180403_091257



Photo 2: 20180403_091300
Top 3 ft of soil were light brown sandy fill. From 3 to 9.5 ft bgs was moist gray sludge filled with garbage and debris



Photo 3: 20180403_092051



Photo 4: 20180403_092239
Clean topsoil was stockpiled separately



Photo 5: 20180403_092429



Photo 6: 20180403_093042



Photo 7: 20180403_094004



Photo 8: 20180403_095858



Photo 9: 20180403_095913

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 4/04/2018
Excavation: IGW-EX-B22 (SB-AOC13-2010-115) Test Pits



Photo 1: 20180404_101516



Photo 2: 20180404_101523



Photo 3: 20180404_102033



Photo 4: 20180404_105010

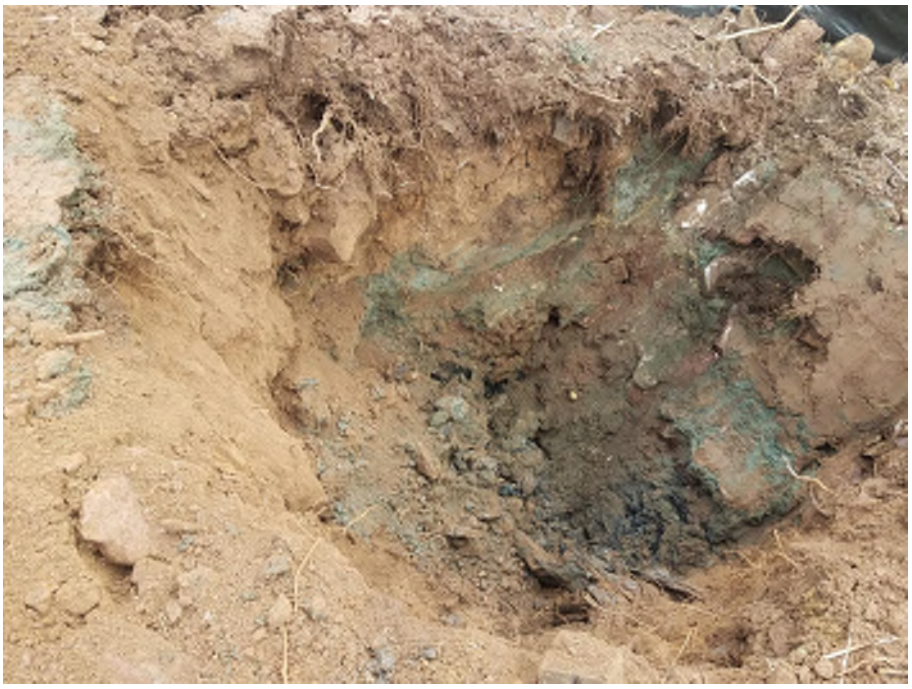


Photo 5: 20180404_105019
Soil was a light yellow-brown sandy fill covering a gray sludge similar to what had been uncovered in other excavations in the area



Photo 6: 20180404_110021



Photo 7: 20180404_110551



Photo 8: 20180404_132214



Photo 9: 20180404_132503



Photo 10: 20180404_134456



Photo 11: 20180404_135623



Photo 12: 20180404_150631



Photo 13: 20180404_150633



Photo 14: 20180404_150638



Photo 15: 20180404_150639



Photo 16: 20180404_151543



Photo 17: 20180404_151629



Photo 18: 20180404_151637



Photo 19: 20180404_152259



Photo 20: 20180404_153014



Photo 21: 20180404_153545



Photo 22: 20180404_153547



Photo 23: 20180404_154121



Photo 24: 20180404_154227



Photo 25: 20180404_154231



Photo 26: 20180404_154240



Photo 27: 20180404_155636



Photo 28: 20180404_155647



Photo 29: 20180404_155718



Photo 30: 20180404_155749



Photo 31: 20180404_155759



Photo 32: 20180404_155813



Photo 33: 20180404_155819



Photo 34: 20180404_155828



Photo 35: 20180404_155856



Photo 36: 20180404_155907

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 4/05/2018
Excavation: IGW-EX-B21 (SB-AOC10-2013-109)



Photo 1: 20180405_083701



Photo 2: 20180405_084057



Photo 3: 20180405_084159



Photo 4: 20180405_084205



Photo 5: 20180405_084534

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 4/06/2018
Excavation: IGW-EX-B22 (SB-AOC10-2013-115)



Photo 1: 20180406_084445
IGW-EX-B22 was excavated and stockpiled with the group B soils



Photo 2: 20180406_090723



Photo 3: 20180406_090725



Photo 4: 20180406_091103



Photo 5: 20180406_091839
Excavation proceeded from east to west.



Photo 6: 20180406_092500
Stockpiled soils



Photo 7: 20180406_093242



Photo 8: 20180406_102802



Photo 9: 20180406_105729



Photo 10: 20180406_105816



Photo 11: 20180406_105842



Photo 12: 20180406_105844



Photo 13: 20180406_111033



Photo 14: 20180406_132637



Photo 15: 20180406_132722



Photo 16: 20180406_151821



Photo 17: 20180406_151952



Photo 18: 20180406_163914



Photo 19: 2080406_163915



Photo 20: 20180406_163938



Photo 21: 20180406_163941



Photo 22: 20180406_163959

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 4/09/2018
Excavation: IGW-EX-B22 (SB-AOC10-2013-115)



Photo 1: 20180409_083226(0)
Excavation was extended to the east



Photo 2: 20180409_083752



Photo 3: 20180409_083926



Photo 4: 20180409_085735



Photo 5: 20180409_085749



Photo 6: 20180409_095318



Photo 7: 20180409_100110



Photo 8: 20180409_144708
Care was taken not to go near the edge of the excavation with the excavator due to weakness of underlying gray sludge material



Photo 9: 20180409_144709

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 4/10/2018
Excavation: IGW-EX-B22 (SB-AOC10-2013-115)



Photo 1: 20180410_110600



Photo 2: 20180410_111230
Began excavating the northeast corner of the excavation, between IGW-EX-B22-OR-4 and IGW-EX-B22-OR-13



Photo 3: 20180410_111231



Photo 4: 20180410_111245



Photo 5: 20180410_111254



Photo 6: 20180410_130641



Photo 7: 20180410_152117



Photo 8: 20180410_152120



Photo 9: 20180410_152511

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 4/11/2018
Excavation: IGW-EX-B22 (SB-AOC10-2013-115)



Photo 1: 20180411_154633



Photo 2: 20180411_154643



Photo 3: 20180411_154946



Photo 4: 20180411_155037



Photo 5: 20180411_155048



Photo 6: 20180411_155107



Photo 7: 20180411_155248

RACER Ewing Excavation Oversight
Ewing, New Jersey
File No. 70613-836
Date Photographs Taken: 4/13/2018
Excavation: IGW-EX-B22 (SB-AOC10-2013-115)



Photo 1: 20180413_094511
The excavation at IGW-EX-B22 was continued, with soil placed in the B stockpile



Photo 2: 20180413_134731



Photo 3: 20180413_134732



Photo 4: 20180413_134742



Photo 5: 20180413_134805



Photo 6: 20180413_134807



Photo 7: 20180413_135122



Photo 8: 20180413_135136

APPENDIX M

Post Excavation Spatially Weighted Averaging

TABLE M-1
POST-EXCAVATION SPATIALLY-WEIGHTED AVERAGING RESULTS FOR ARSENIC IN SOIL
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXCAVATION AREA: IGW-EX-B03							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE (FT)**	**Y-COORDINATE (FT)**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	FSO27-A	2	406032.442	520794.044	31	1464.89	45411.60
2	FSO29	1	406045.391	520824.940	30.6	1232.43	37712.29
3	B6-201-A	2	405997.789	520791.442	24.7	407.50	10065.13
4	B6-201-D	2	406002.522	520787.027	24.3	332.75	8085.77
5	B6-201-B	2	405990.859	520789.628	23.7	2073.09	49132.22
6	B6-201-C	2	405995.594	520784.934	21.3	300.65	6403.91
7	B3-27	2	406049.280	520841.650	13.0	2032.62	26424.09
8	B3-29	2	406013.460	520746.900	12.0	1556.58	18678.94
9	B3-28	2	406032.190	520799.480	12.0	309.60	3715.24
10	FSO26	1	406004.780	520765.885	6.10	1611.13	9827.88
11	B3-4-200	1	406021.224	520816.486	6.00	1747.49	10484.96
12	FSO28-A	1	406040.675	520815.540	3.70	879.72	3254.98
13	IGW-EX-B03	NA	NA	NA	2.48	81.36	201.78
14	SB-5-SO-2	1	405922.650	520794.540	2.00	2103.04	4206.08
SUM						**16132.85**	**233604.85**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**14.5**
IGWSSSRS (MG/KG)							**19**

TABLE M-1
POST-EXCAVATION SPATIALLY-WEIGHTED AVERAGING RESULTS FOR ARSENIC IN SOIL
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXCAVATION AREA: IGW-EX-B08 & IGW-EX-B09							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE (FT)**	**Y-COORDINATE (FT)**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	IGW-EX-B09-G	2	405730.283	520471.413	80.5	265.01	21333.51
2	IGW-EX-B09-F	2	405726.452	520469.714	49.5	369.76	18303.30
3	IGW-EX-B09-L	2	405723.479	520486.207	37.9	43.15	1635.43
4	ISO5-101	2	405737.539	520476.726	33.7	1010.29	34046.82
5	ISO5-102	2	405729.980	520481.200	28.5	17.54	499.76
6	IGW-EX-B09-I	2	405721.674	520481.228	20.4	3.68	75.00
7	IGW-EX-B08-G	2	405708.867	520465.458	20.2	3615.28	73028.59
8	IGW-EX-B08-D	2	405716.488	520470.200	19.3	44.96	867.65
9	IGW-EX-B08-F	2	405706.502	520472.116	19.2	3500.59	67211.42
10	IGW-EX-B09-J	2	405727.633	520479.368	17.9	7.25	129.85
11	IGW-EX-B09-E	2	405728.742	520475.166	16.7	16.53	276.02
12	IGW-EX-B09-K	2	405727.124	520488.068	16.0	2014.98	32239.72
13	ISO5-103	2	405736.052	520485.338	15.2	1560.20	23714.97
14	ISO5-100	2	405734.685	520480.676	14.7	30.66	450.68
15	ISO19	1	405578.839	520381.854	13.7	8875.16	121589.66
16	IGW-EX-B09-B	2	405721.234	520470.637	12.5	46.75	584.42
17	IGW-EX-B09-M	2	405729.402	520485.022	10.3	16.96	174.68
18	IGW-EX-B08-H	2	405716.720	520485.500	7.17	541.67	3883.76
19	IGW-EX-B08-I	2	405711.219	520483.839	6.81	1951.92	13292.54
20	IGW-EX-B08-J	2	405720.334	520481.368	6.21	3.91	24.26
21	IGW-EX-B08-B09	NA	NA	NA	4.72	361.46	1706.11
22	ISO4	1	405806.458	520508.459	3.30	3502.36	11557.78
SUM						**27800.06**	**426625.93**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**15.3**
IGWSSSRS (MG/KG)							**19**

TABLE M-1
POST-EXCAVATION SPATIALLY-WEIGHTED AVERAGING RESULTS FOR ARSENIC IN SOIL
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXCAVATION AREA: IGW-EX-B10							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE (FT)**	**Y-COORDINATE (FT)**	**AS MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**AS WEIGHTED CONCENTRATION**
1	IGW-EX-B10-B	2	405958.737	520327.040	53.4	503.80	26903.16
2	IGW-EX-B10-C	2	405961.292	520323.941	47.9	236.36	11321.80
3	IGW-EX-B10-A	2	405962.226	520328.670	22.1	890.51	19680.22
4	ISO37	2	405951.170	520297.789	18.7	2146.36	40136.88
5	MOA-B-S13	1	406049.530	520383.180	15.6	1807.97	28204.30
6	ISO38	1	405956.831	520245.863	11.9	2549.27	30336.32
7	ISO36	1	405921.218	520295.289	7.90	464.81	3671.98
8	ISO35	1	405925.120	520297.949	7.90	749.08	5917.76
9	IGW-EX-B10-D	2	405964.602	520325.627	7.82	2732.78	21370.31
10	MOA-B-S12	1	406063.050	520353.330	4.70	2370.66	11142.10
11	MOA-B-S11	1	406083.080	520327.540	4.30	2331.83	10026.85
12	IGW-EX-B10	NA	NA	NA	0.54	29.09	15.56
SUM						**16812.51**	**208727.23**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**12.4**
IGWSSSRS (MG/KG)							**19**

TABLE M-2
POST-EXCAVATION SPATIALLY-WEIGHTED AVERAGING RESULTS FOR CHROMIUM IN SOIL
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXCAVATION AREA: IGW-EX-A07 & IGW-EX-B22							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE (FT)**	**Y-COORDINATE (FT)**	**CR MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**CR WEIGHTED CONCENTRATION**
1	IGW-EX-B22-OR-01	2	406820.580	520344.050	15500	390.96	6059913.15
2	IGW-EX-B22-IR-06	2	406787.165	520407.946	9120	83.17	758528.93
3	IGW-EX-B22-IR-01	2	406812.139	520350.554	7670	492.77	3779565.54
4	IGW-EX-B22-OR-08	2	406829.955	520339.468	2620	190.60	499375.49
5	IGW-EX-B22-OR-09	2	406862.140	520378.120	1480	736.66	1090262.13
6	IGW-EX-B22-OR-13	2	406868.140	520397.340	1370	129.79	177815.88
7	IGW-EX-B22-OR-04	2	406824.656	520427.298	774	322.03	249248.05
8	WSO13	1	406840.362	520327.172	635	315.86	200572.74
9	IGW-EX-B22-OR-12	2	406849.664	520354.761	614	596.38	366174.73
10	IGW-EX-B22-OR-11	2	406836.090	520336.470	614	147.39	90494.44
11	IGW-EX-B22-OR-14	2	406849.764	520410.481	590	314.40	185498.32
12	SB-AOC10-2013-111	2	406777.768	520312.116	530	1441.26	763870.19
13	SB-10-SO-7-101	3	406783.570	520370.987	114	211.26	24083.11
14	SB-10-SO-7-100	3	406779.650	520374.540	59.0	33.93	2001.74
15	SB-AOC10-2013-114	2	406774.344	520389.316	55.0	514.79	28313.68
16	SB-10-SO-7-102	3	406774.840	520372.035	37.2	688.56	25614.30
17	SB-AOC10-2013-112	2	406773.141	520352.951	35.8	1365.69	48891.64
18	IGW-EX-A07	NA	NA	NA	28.6	99.91	2857.41
19	IGW-EX-B22	NA	NA	NA	28.6	5008.52	143243.55
SUM						**13083.93**	**14496325.01**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**1108**
SITE-SPECIFIC IGWSRS (MG/KG)							**1540**

TABLE M-3
POST-EXCAVATION SPATIALLY-WEIGHTED AVERAGING RESULTS FOR NICKEL IN SOIL
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXCAVATION AREA: IGW-EX-A07 & IGW-EX-B22							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE (FT)**	**Y-COORDINATE (FT)**	**NI MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**NI WEIGHTED CONCENTRATION**
1	IGW-EX-B22-OR-01	2	406820.580	520344.050	40900	596.38	24391769.58
2	IGW-EX-B22-IR-06	2	406787.165	520407.946	19500	211.26	4119479.11
3	IGW-EX-B22-IR-01	2	406812.139	520350.554	18800	83.17	1563634.21
4	IGW-EX-B22-OR-08	2	406829.955	520339.468	5310	314.40	1669484.85
5	IGW-EX-B22-OR-09	2	406862.140	520378.120	1460	1441.26	2104246.18
6	IGW-EX-B22-OR-04	2	406824.656	520427.298	1060	129.79	137580.17
7	WSO13	1	406840.362	520327.172	981	33.93	33283.16
8	SB-AOC10-2013-111	2	406777.768	520312.116	920	147.39	135594.27
9	IGW-EX-B22-OR-12	2	406849.664	520354.761	702	315.86	221735.53
10	IGW-EX-B22-OR-14	2	406849.764	520410.481	678	514.79	349030.42
11	SB-10-SO-7-100	3	406779.650	520374.540	126	736.66	92819.61
12	SB-10-SO-7-102	3	406774.840	520372.035	89.2	190.60	17001.64
13	IGW-EX-A07	NA	NA	NA	71.5	99.91	7143.52
14	IGW-EX-B22	NA	NA	NA	71.5	5008.52	358108.86
15	SB-10-SO-7-101	3	406783.570	520370.987	43.9	390.96	17163.24
18	SB-AOC10-2013-112	2	406773.141	520352.951	18.9	322.03	6086.29
19	SB-AOC10-2013-114	2	406774.344	520389.316	13.0	492.77	6406.04
SUM						**11029.68**	**35230566.70**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**3194**
SITE-SPECIFIC IGWSRS (MG/KG)							**9200**

TABLE M-4
POST-EXCAVATION SPATIALLY-WEIGHTED AVERAGING RESULTS FOR LEAD IN SOIL
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXCAVATION AREA: IGW-EX-A01							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE (FT)**	**Y-COORDINATE (FT)**	**PB MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**PB WEIGHTED CONCENTRATION**
1	B8-4-100-A	2	406549.131	520226.106	1370	283.2846504	388099.97
2	B8-4-102	1	406551.361	520246.073	1010	734.7398413	742087.24
3	B8-4	1	406531.720	520234.750	800	256.4759634	205180.77
4	B8-4-100-D	2	406546.302	520219.582	561	241.7317473	135611.51
5	B8-4-100-C	2	406538.766	520218.788	372	173.5778542	64570.96
6	B8-4-100-B	2	406541.144	520226.711	340	102.1602238	34734.48
7	B8-4-101	1	406525.310	520242.598	331	1585.663074	524854.48
8	SB-AOC8B-2013-105	1	406450.077	520243.585	268	2381.311852	638191.58
9	SB-8-SO-12-101	1	406521.275	520211.500	205	1049.904995	215230.52
10	SB-AOC10-2013-103	1	406578.511	520232.409	188	443.2914599	83338.79
11	B8-4-103	1	406537.238	520249.321	126	717.182057	90364.94
12	SB-AOC8B-2013-102	1	406493.877	520187.045	110	1698.004213	186780.46
13	SB-AOC8B-2013-108	1	406529.661	520298.409	35.3	1719.551461	60700.17
14	SB-10-SO-208	1	406535.140	520199.520	21.3	388.8442216	8282.38
15	IGW-EX-A01	NA	NA	NA	15.2	99.882804	1518.22
SUM						**11875.61**	**3379546.47**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**285**
IGWSSSRS (MG/KG)							**328**

TABLE M-4
POST-EXCAVATION SPATIALLY-WEIGHTED AVERAGING RESULTS FOR LEAD IN SOIL
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXCAVATION AREA: IGW-EX-B12							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE (FT)**	**Y-COORDINATE (FT)**	**PB MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**PB WEIGHTED CONCENTRATION**
1	IGW-EX-B12-B	2	406385.479	520296.896	954	755.1589152	720421.61
2	IGW-EX-B12-C	2	406385.353	520290.037	570	265.4950077	151332.15
3	JSO11-101	1	406363.100	520283.010	526	2815.309543	1480852.82
4	SB-AOC8B-2013-104	1	406374.667	520269.990	366	984.9308968	360484.71
5	IGW-EX-B12-D	2	406391.161	520294.341	265	573.336169	151934.08
6	IGW-EX-B12-A	2	406390.763	520300.322	88.1	1345.753264	118560.86
7	SB-AOC8B-2013-107	1	406461.792	520327.379	67.5	2113.944901	142691.28
8	SB-AOC8B-2013-106	1	406401.677	520353.449	27.8	4744.14657	131887.27
9	IGW-EX-B12	NA	NA	NA	17.4	72.068826	1254.00
10	IGW-EX-A02	NA	NA	NA	17.4	395.042985	6873.75
11	B8-5	1	406298.360	520322.610	13	2333.619544	30337.05
SUM						**16398.81**	**3296629.59**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**201**
IGWSSSRS (MG/KG)							**328**

TABLE M-4
POST-EXCAVATION SPATIALLY-WEIGHTED AVERAGING RESULTS FOR LEAD IN SOIL
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

EXCAVATION AREA: IGW-EX-B15 & IGW-EX-B21							
RANK	**LOCATION**	**SAMPLE COUNT**	**X-COORDINATE (FT)**	**Y-COORDINATE (FT)**	**PB MAXIMUM CONCENTRATION (MG/KG)**	**POLYGON AREA (SQ. FT)**	**PB WEIGHTED CONCENTRATION**
1	SB-10-SO-10	1	406625.650	520173.540	830	303.5425038	251940.28
2	SB-10-SO-10-101	1	406628.400	520177.718	712	1096.784946	780910.88
3	IGW-EX-B15-B	2	406646.245	520211.214	642	89.11245307	57210.19
4	IGW-EX-B15-C	2	406651.927	520208.356	614	510.1203974	313213.92
5	IGW-EX-B15-A	2	406651.618	520214.243	506	417.0275707	211015.95
6	SB-10-SO-10-103	1	406621.160	520171.230	468	617.1283791	288816.08
7	IGW-EX-B21-J	2	406695.628	520211.913	380	694.3209489	263841.96
8	IGW-EX-B21-K	2	406720.789	520199.171	314	671.8275072	210953.84
9	IGW-EX-B21-O	2	406736.432	520205.845	307	426.334737	130884.76
10	SB-AOC10-2013-100	1	406622.540	520142.470	237	1010.29812	239440.65
11	IGW-EX-B21-C	2	406705.538	520199.030	216	658.349616	142203.52
12	IGW-EX-B21-I	2	406705.396	520220.366	200	563.0583355	112611.67
13	IGW-EX-B21-H	2	406718.327	520216.852	153	343.4309483	52544.94
14	SB-10-SO-11	2	406646.650	520124.540	140	1273.240841	178253.72
15	IGW-EX-B15-D	2	406657.466	520211.471	78.3	835.0241249	65382.39
16	SB-10-SO-210	1	406642.270	520212.803	29.6	764.4593555	22628.00
17	SB-10-SO-9	1	406691.650	520260.540	18	1016.309484	18293.57
18	SB-AOC10-2013-101	1	406591.438	520185.908	11	881.2684631	9693.95
19	IGW-EX-B21	NA	NA	NA	4.14	729.064696	3018.33
20	IGW-EX-B15	NA	NA	NA	3.66	66.210097	242.33
21	SB-AOC10-2013-102	1	406691.726	520156.142	3.40	1914.043753	6507.75
SUM						**14880.96**	**3359608.68**
AREA WEIGHTED MEAN CONCENTRATION (MG/KG)							**226**
IGWSSSRS (MG/KG)							**328**

APPENDIX N

Well Abandonment Report

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
2700014756

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: N/A RACER PROPERTIES % R. ZABLOCKI

Company/Organization: RACER PROPERTIES % R. ZABLOCKI

Address: 500 WOODWARD AVE. SUT2650 DETROIT, Michigan 48226

WELL LOCATION: Delphi Int and Lighting System

Address: 1445 PARKWAY AVE

County: Mercer Municipality: Ewing Twp Lot: 1.01 Block: 343

Easting (X): 405962 Northing (Y): 520326
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL DECOMMISSIONED: March 5, 2018

WELL USE: MONITORING

Other Use(s):

Local ID: MW-22

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 18

Was a New Well Drilled? N

Formation Type: Unconsolidated

New Well Permit Number:

WELL DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	8	2	PVC	sch 40
Screen	8	18	2	PVC	.020

MATERIALS USED

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	18	2	0	5	94	7
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No

Authorization Official:

Obstruction Type:

Authorization Number:

Alternative Decomm. Method? No

Authorization Date:

Method Used

ATTACHMENTS:

Ron Barber
MASTER
Sealing Driller: LICENSE # 0001595

SUMMIT DRILLING CO INC
81 CHIMNEY ROCK RD
Company: Bridgewater Twp (Somerset), NJ 08807

APPENDIX O

Data Usability Review

Haley & Aldrich, Inc.
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Parsippany, NJ 07054
973.658.3900

Data Usability Summary Report

Project Name: RACER Ewing

Analytical Laboratory: Alpha Analytical – Westborough, MA

Usability Assessment Performed by: Emily Heuer

Haley & Aldrich, Inc. prepared this Data Usability Report (DUSR) to summarize the review of the RACER Ewing soil samples collected on 22 February to 10 April 2018. Analytical results for each Sample Delivery Groups (SDG) below were reviewed with guidance provided by the New Jersey Department of Environmental Protection (NJDEP) to determine the data's usability. This data usability assessment was performed per the guidance and requirements established by the Data Quality Assessment and Data Usability Evaluation (DQA/DUE) Technical Guidance (dated April 2014) and with the Quality Assurance Project Plan Technical Guidance (Version 1 dated April 2014). The overall usability of the data was assessed by evaluating the precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) of the data set with the measurement performance criteria.

The following quality assurance/quality control (QA/QC) criteria from the analysis of the project samples were reviewed as applicable:

1. Sample Delivery Group Number L1806523
2. Sample Delivery Group Number L1808072
3. Sample Delivery Group Number L1808687
4. Sample Delivery Group Number L1806322
5. Sample Delivery Group Number L1806796
6. Sample Delivery Group Number L1806600
7. Sample Delivery Group Number L1808465
8. Sample Delivery Group Number L1808569
9. Sample Delivery Group Number L1809609
10. Sample Delivery Group Number L1808289
11. Sample Delivery Group Number L1807550
12. Sample Delivery Group Number L1810262
13. Sample Delivery Group Number L1809335
14. Sample Delivery Group Number L1807701
15. Sample Delivery Group Number L1809912
16. Sample Delivery Group Number L1811349
17. Sample Delivery Group Number L1811748
18. Sample Delivery Group Number L1812223
19. Sample Delivery Group Number L1811684
20. Sample Delivery Group Number L1812048
21. Sample Delivery Group Number L1812390

- Data of Known Quality Conformance/Non-Conformance Review
- Holding Times/Preservation
- Reporting Limits and Sample Dilution
- Reporting Basis (Wet/Dry)
- Blank Sample Analysis
- Surrogate Recovery Compliance
- Laboratory Control Samples
- Matrix Spike Samples
- Field and Laboratory Duplicate Samples
- Use of Laboratory Data Qualifiers

Analytical precision and accuracy were evaluated based on the laboratory control, matrix spike, or lab duplicate analyses performed concurrently with the project samples, and based on field duplicates collected at the site. Field precision was assessed through collection and measurement of field duplicates samples at a rate of 1

duplicate per 20 investigative samples, which has been achieved (18 duplicate samples collected per 348 total samples). No field, equipment, or trip blanks were collected in this dataset.

Data reported in this sampling event were reported to the laboratory reporting limit (RL). Results found between the MDL and RL are flagged "J" estimated.

Sample data were qualified by the laboratory in accordance with standard operating procedures (SOPs). Based on a check of the data qualifiers assigned as project sample results, these flags were applied to the reported results in accordance with the laboratory-specific SOPs. The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Number L1806523

1.1 SUMMARY

This DUSR summarizes the review of SDG number L1806523. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-022318-DUP	FD	L1806523-01	2/23/2018	Soil	Arsenic by 6010	180 days
9179-022318-1155	N	L1806523-02	2/23/2018	Soil	Arsenic by 6010	180 days
9179-022318-1040	N	L1806523-03	2/23/2018	Soil	Arsenic by 6010	180 days
9179-022318-1030	N	L1806523-04	2/23/2018	Soil	Arsenic by 6010	180 days
9179-022318-1145	N	L1806523-05	2/23/2018	Soil	Arsenic by 6010	180 days
9179-022318-1140	N	L1806523-06	2/23/2018	Soil	Arsenic by 6010	180 days
9179-022318-1045	N	L1806523-07	2/23/2018	Soil	Arsenic by 6010	180 days
9179-022318-1150	N	L1806523-08	2/23/2018	Soil	Arsenic by 6010	180 days
9179-022318-1035	N	L1806523-09	2/23/2018	Soil	Arsenic by 6010	180 days
9179-022318-1435	N	L1806523-10	2/23/2018	Soil	Lead by 6010	180 days
9179-022318-1400	N	L1806523-11	2/23/2018	Soil	Lead by 6010	180 days
9179-022318-1405	N	L1806523-12	2/23/2018	Soil	Lead by 6010	180 days
9179-022318-1410	N	L1806523-13	2/23/2018	Soil	Lead by 6010	180 days
9179-022318-1415	N	L1806523-14	2/23/2018	Soil	Lead by 6010	180 days
9179-022318-1420	N	L1806523-15	2/23/2018	Soil	Lead by 6010	180 days
9179-022318-1425	N	L1806523-16	2/23/2018	Soil	Lead by 6010	180 days
9179-022318-1430	N	L1806523-17	2/23/2018	Soil	Lead by 6010	180 days

1.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

1.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 2.4 Degrees C.

1.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

1.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

1.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

1.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

1.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample(s) were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1806523-07	9179-022318-1045	Arsenic and Lead via 6010
L1806523-11	9179-022318-1400	Arsenic and Lead via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS	6010	9179-022318-1400	Arsenic, Total	127%	Results may be biased high.	Considers results for associated samples L1806523-01 through 17 to be biased high.
MS/MSD	6010	9179-022318-1400	Lead, Total	0%	None, native sample > 4x the spiked concentration.	None.

1.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%:

- 9179-022318-1045 for Total Solids

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD comparison for any field duplicates in this SDG are shown below. A field duplicate sample was not submitted for Total Lead.

Field Duplicate RPD Calculations:

Method: 6010				
Analyte (mg/kg)	Primary Sample ID	Duplicate Sample ID	% RPD	Assessment & Action
	9179-022318-1155	9179-022318-DUP		
Arsenic	21.2	19.5	8.4	RPD <50%. No action.

1.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
All samples in SDG.	Arsenic	Potential high bias due to MS/MSD recoveries.	Associated sample results may be biased high.

2. Sample Delivery Group Number L1808072

2.1 SUMMARY

This DUSR summarizes the review of SDG number L1808072. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-030818-0001	FD	L1808072-01	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1050	N	L1808072-02	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1055	N	L1808072-03	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1100	N	L1808072-04	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1105	N	L1808072-05	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1110	N	L1808072-06	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1115	N	L1808072-07	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1120	N	L1808072-08	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1125	N	L1808072-09	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1250	N	L1808072-10	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1255	N	L1808072-11	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1300	N	L1808072-12	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1305	N	L1808072-13	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1310	N	L1808072-14	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1315	N	L1808072-15	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1320	N	L1808072-16	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1325	N	L1808072-17	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-0002	FD	L1808072-18	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1400	N	L1808072-19	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1405	N	L1808072-20	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1410	N	L1808072-21	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1415	N	L1808072-22	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1420	N	L1808072-23	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1425	N	L1808072-24	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1435	N	L1808072-25	03/08/2018	Soil	Arsenic by 6010	180 days
9179-030818-1440	N	L1808072-26	03/08/2018	Soil	Arsenic by 6010	180 days

2.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

2.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 3.2, 2.3 Degrees C.

2.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

2.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

2.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

2.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

2.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample(s) were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1808072-09	9179-030818-1125	Arsenic via 6010
L1808072-26	9179-030818-1440	Arsenic via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS	6010	9179-030818-1125	Arsenic, Total	MS: 180% /30	Results may be biased high.	Consider results for associated samples L1808072-01 through 20 to be biased high.
MS	6010	9179-030818-1440	Arsenic, Total	MS: 163% /27	Results may be biased high.	Consider results for associated samples L1808072-21 through 26 to be biased high.

2.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%:

- 9179-030818-1125 for Total Solids
- 9179-030818-1440 for Total Solids

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD comparison for any field duplicates in this SDG are shown below. A field duplicate sample was not submitted for Total Lead.

Field Duplicate RPD Calculations:

Method: 6010				
Analyte (mg/kg)	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Assessment & Action**
	9179-030818-1435	**9179-030818-0002**		
Arsenic	17.5	14.5	18.8	RPD <50%. No action.
Analyte (mg/kg)	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Assessment & Action**
	9179-030818-1120	**9179-030818-0001**		
Arsenic	20.3	73.8	113.7	RPD >50%. Consider parent and duplicate results estimated.

2.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
All samples in SDG.	Arsenic	Potential high bias due to MS/MSD recoveries.	Associated sample results may be biased high.
9179-030818-1120	Arsenic	RPD >50%, precision is suspect.	Precision of analysis may be affected.
9179-030818-0001	Arsenic	RPD >50%, precision is suspect.	Precision of analysis may be affected.

3. Sample Delivery Group Number L1808687

3.1 SUMMARY

This DUSR summarizes the review of SDG number L1808687. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-031418-0001	N	L1808687-01	03/14/2018	Soil	Arsenic by 6010	180 days
9179-031418-0925	N	L1808687-02	03/14/2018	Soil	Arsenic by 6010	180 days
9179-031418-0930	N	L1808687-03	03/14/2018	Soil	Arsenic by 6010	180 days
9179-031418-0935	N	L1808687-04	03/14/2018	Soil	Arsenic by 6010	180 days
9179-031418-0940	N	L1808687-05	03/14/2018	Soil	Arsenic by 6010	180 days
9179-031418-0945	N	L1808687-06	03/14/2018	Soil	Arsenic by 6010	180 days
9179-031418-0950	N	L1808687-07	03/14/2018	Soil	Arsenic by 6010	180 days
9179-031418-0955	N	L1808687-08	03/14/2018	Soil	Arsenic by 6010	180 days
9179-031418-1000	N	L1808687-09	03/14/2018	Soil	Arsenic by 6010	180 days
9179-031418-1030	N	L1808687-10	03/14/2018	Soil	Arsenic and Chromium by 6010	180 days

3.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

3.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 2.3 Degrees C.

3.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

3.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

3.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur, with the following exceptions:

Blank Type	Date of Blank	Analyte Detected in Blank	Concentration (mg/kg)	Action	Affected Samples
Method Blank	3/15/18	Chromium	0.044 J	Potential bias for associated samples.	None. Associated sample results are >10x the blank result.

3.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

3.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample(s) were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1808687-09	9179-031418-1000	Arsenic and Chromium via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS/MSD	6010	9179-031418-1000	Arsenic, Total	MS: 55, MSD: 54	Results may be biased low.	Consider results for associated samples L1808687-01 through 10 to be biased low.

3.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%:

- 9179-031418-1000 for Total Solids

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. No field duplicates were collected in this data set.

3.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
All samples in SDG.	Arsenic	Potential low bias due to MS/MSD recoveries.	Associated sample results may be biased low.

4. Sample Delivery Group Number L1806322

4.1 SUMMARY

This DUSR summarizes the review of SDG number L1806322. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel, with the following exceptions:

- The collection time for sample L1806322-01 did not match between the COC and the sample label. The time recorded on the COC was used.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-20180222-1522	N	L1806322-01	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1525	N	L1806322-02	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1527	N	L1806322-03	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1530	N	L1806322-04	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1535	N	L1806322-05	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1537	N	L1806322-06	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1540	N	L1806322-07	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1545	N	L1806322-08	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1410	N	L1806322-09	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1440	N	L1806322-10	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1450	N	L1806322-11	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1500	N	L1806322-12	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1510	N	L1806322-13	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1505	N	L1806322-14	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1520	N	L1806322-15	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-1515	N	L1806322-16	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-DUP2	FD	L1806322-17	02/22/2018	Soil	Lead via 6010	180 days
9179-20180222-0950	N	L1806322-18	02/22/2018	Soil	Trichloroethene via 8260C	14 days
9179-20180222-1140	N	L1806322-19	02/22/2018	Soil	Trichloroethene via 8260C	14 days
9179-20180222-1005	N	L1806322-20	02/22/2018	Soil	Trichloroethene via 8260C	14 days
9179-20180222-DUP	FD	L1806322-21	02/22/2018	Soil	Trichloroethene via 8260C	14 days
9179-20180222-1020	N	L1806322-22	02/22/2018	Soil	Trichloroethene via 8260C	14 days
9179-20180222-1130	N	L1806322-23	02/22/2018	Soil	Trichloroethene via 8260C	14 days
9179-20180222-1040	N	L1806322-24	02/22/2018	Soil	Trichloroethene via 8260C	14 days
9179-20180222-1055	N	L1806322-25	02/22/2018	Soil	Trichloroethene via 8260C	14 days
9179-20180222-1120	N	L1806322-26	02/22/2018	Soil	Trichloroethene via 8260C	14 days

4.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for "Data of Known Quality".

4.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 3.2, 2.7 Degrees C.

4.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP), with the following exceptions:

Sample ID	Lab ID	Analyte/ Method	Dilution Factor	Issue/Explanation
9179-20180222-1140	L1806322-19	TCE via 8260C	4x (TCE is ND)	Dilution required due to abundance of non-target analyte
9179-20180222-1005	L1806322-20	TCE via 8260C	4x (TCE is ND)	Dilution required due to abundance of non-target analyte
9179-20180222-1020	L1806322-22	TCE via 8260C	50x (TCE is ND)	Dilution required due to abundance of non-target analyte
9179-20180222-1130	L1806322-23	TCE via 8260C	20x (TCE is ND)	Dilution required due to abundance of non-target analyte
9179-20180222-1040	L1806322-24	TCE via 8260C	10x (TCE is ND)	Dilution required due to abundance of non-target analyte
9179-20180222-1055	L1806322-25	TCE via 8260C	5x (TCE is ND)	Dilution required due to abundance of non-target analyte
9179-20180222-1120	L1806322-26	TCE via 8260C	4x (TCE is ND)	Dilution required due to abundance of non-target analyte

4.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

4.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

4.7 SURROGATE RECOVERY COMPLIANCE

Surrogates, also known as deuterated monitoring compounds, are compounds added to each sample prior to sample preparation to evaluate the percent recovery (%R) to ensure that the organic analytical method is efficient. The percent recoveries were within the limits specified by the EPA.

4.8 LABORATORY CONTROL SAMPLES

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS/LCSD analyses exhibited recoveries and relative percent difference (RPD) within the control limits specified by the SOPs.

4.9 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample(s) were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1806322-19	9129-20180222-1140	8260C
L1806322-01	9179-20180222-1522	6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS/MSD	8260	9179-20180222-1140	TCE	162, 168	Results for L1806322-19 maybe be biased high.	Consider TCE result for L1806322-19 to be biased high.
MS	6010	9179-20180222-1522	Lead	279	Results for samples L1806322-01 through 17 maybe be biased high.	Consider Lead results to be biased high.

4.10 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%:

- 9179-20180222-1522 for Lead
- 9179-20180222-1140 for Total Solids
- 9179-20180222-DUP for Total Solids

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD comparison for any field duplicates in this SDG are shown below.

Field Duplicate RPD Calculations:

Method: 6010				
Analyte (mg/kg)	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Assessment & Action**
	9179-20180222-1515	**9179-20180222-DUP2**		
Lead	305	201	41.1	None, RPD <50%
Method: 8260				
Analyte (mg/kg)	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Assessment & Action**
	9179-20180222-1040	**9179-20180222-DUP**		
TCE	0.95 U	0.00097 U	NA	None, results ND.

4.11 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
Samples L1806322-19, 20, 22, 23, 24, 25, 26	TCE	Abundance of non-target analytes resulted in elevated RLs for these samples that were reported as ND.	Sensitivity of analysis is affected and may not be ND.
L1806322-19	TCE	Potential high bias due to MS/MSD recoveries.	Associated sample results may be biased high.
L1806322-01 through 17	Lead	Potential high bias due to MS/MSD recoveries.	Associated sample results may be biased high.

5. Sample Delivery Group Number L1806796

5.1 SUMMARY

This DUSR summarizes the review of SDG number L1806796. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-022718-1255	N	L1806796-01	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-1257	N	L1806796-02	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-1300	N	L1806796-03	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-1250	N	L1806796-04	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-1305	N	L1806796-05	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-1252	N	L1806796-06	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-1247	N	L1806796-07	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-1245	N	L1806796-08	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-1000	N	L1806796-09	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-0952	N	L1806796-10	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-0001	FD	L1806796-11	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-1020	N	L1806796-12	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-0950	N	L1806796-13	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-1025	N	L1806796-14	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-1010	N	L1806796-15	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-1015	N	L1806796-16	02/27/2018	Soil	Lead via 6010	180 days
9179-022718-0955	N	L1806796-17	02/27/2018	Soil	Lead via 6010	180 days

5.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

5.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 2.3 Degrees C.

5.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

5.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

5.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur, with the following exceptions:

Blank Type	Date of Blank	Analyte Detected in Blank	Concentration (mg/kg)	Action	Affected Samples
Method Blank	2/28/18	Chromium	0.052 J	Potential bias for associated samples.	None. Associated sample results are >10x the blank results.

5.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

5.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample(s) were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1806796-05	9179-022718-1305	Chromium and Lead via 6010
L1806796-14	9179-022718-1025	Chromium and Lead via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS/MSD	6010	9179-022718-1305	Chromium	0	Native sample > 4x the spiked concentration.	None.
MSD	6010	9179-022718-1305	Lead	194, RPD 28	Associated sample results may be biased high.	Potential precision issue.
MS/MSD	6010	9179-022718-1025	Chromium	13, 24	Associated sample results may be biased low.	Potential precision issue.
MSD	6010	9179-022718-1025	Lead	69	Associated sample results may be biased low.	Potential precision issue.

5.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%:

- 9179-022718-1305 for Total Solids

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD comparison for any field duplicates in this SDG are shown below.

Field Duplicate RPD Calculations:

Method: 6010				
Analyte (mg/kg)	Primary Sample ID	Duplicate Sample ID	% RPD	Assessment & Action
	9179-022718-1000	9179-022718-0001		
Lead	208	249	17.9	None, RPD <50%

5.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
All SDG samples.	Lead	Precision of analysis may be affected due to MS/MSD recoveries being outside of limits.	Associated sample results may be biased high.
All SDG samples.	Chromium	Precision of analysis may be affected due to MS/MSD recoveries being outside of limits.	Associated sample results may be biased low.
All SDG samples.	Lead	Precision of analysis may be affected due to MS/MSD recoveries being outside of limits.	Associated sample results may be biased low.

6. Sample Delivery Group Number L1806600

6.1 SUMMARY

This DUSR summarizes the review of SDG number L1806600. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-022618-1055	N	L1806600-01	02/26/2018	Soil	TCE via 8260C	14 days
9179-022618-1045	N	L1806600-02	02/26/2018	Soil	TCE via 8260C	14 days
9179-022618-1050	N	L1806600-03	02/26/2018	Soil	TCE via 8260C	14 days
9179-022618-1100	N	L1806600-04	02/26/2018	Soil	TCE via 8260C	14 days
9179-022618-1200	N	L1806600-05	02/26/2018	Soil	TCE via 8260C	14 days
9179-022618-1145	N	L1806600-06	02/26/2018	Soil	TCE via 8260C	14 days
9179-022618-1150	N	L1806600-07	02/26/2018	Soil	TCE via 8260C	14 days
9179-022618-1155	N	L1806600-08	02/26/2018	Soil	TCE via 8260C	14 days

6.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

6.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 2.8 Degrees C.

6.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

6.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

6.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

6.7 LABORATORY CONTROL SAMPLES

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS/LCSD analyses exhibited recoveries and relative percent difference (RPD) within the control limits specified by the SOPs.

6.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. No client samples were used for MS/MSD analysis in this SDG.

6.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. No client samples were used for laboratory duplicate analysis in this SDG.

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. No field duplicates were collected in this data set.

6.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. No bias issues were identified in this SDG.

7. Sample Delivery Group Number L1808465

7.1 SUMMARY

This DUSR summarizes the review of SDG number L1808465. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-031218-0840	N	L1808465-01	03/12/2018	Soil	Arsenic via 6010	180 days
9179-031218-0845	N	L1808465-02	03/12/2018	Soil	Arsenic via 6010	180 days
9179-031218-0850	N	L1808465-03	03/12/2018	Soil	Arsenic via 6010	180 days
9179-031218-0855	N	L1808465-04	03/12/2018	Soil	Arsenic via 6010	180 days
9179-031218-0900	N	L1808465-05	03/12/2018	Soil	Arsenic via 6010	180 days
9179-031218-0905	N	L1808465-06	03/12/2018	Soil	Arsenic via 6010	180 days
9179-031218-0910	N	L1808465-07	03/12/2018	Soil	Arsenic via 6010	180 days
9179-031218-0915	N	L1808465-08	03/12/2018	Soil	Arsenic via 6010	180 days
9179-031218-1000	N	L1808465-09	03/12/2018	Soil	Chromium and Nickel via 6010	180 days
9179-031218-1005	N	L1808465-10	03/12/2018	Soil	Chromium and Nickel via 6010	180 days
9179-031218-1010	N	L1808465-11	03/12/2018	Soil	Chromium and Nickel via 6010	180 days
9179-031218-1015	N	L1808465-12	03/12/2018	Soil	Chromium and Nickel via 6010	180 days
9179-031218-1020	N	L1808465-13	03/12/2018	Soil	Chromium and Nickel via 6010	180 days
9179-031218-1025	N	L1808465-14	03/12/2018	Soil	Chromium and Nickel via 6010	180 days
9179-031218-1030	N	L1808465-15	03/12/2018	Soil	Chromium and Nickel via 6010	180 days
9179-031218-1035	N	L1808465-16	03/12/2018	Soil	Chromium and Nickel via 6010	180 days
9179-031218-0001	FD	L1808465-17	03/12/2018	Soil	Chromium via 6010	180 days
9179-031218-1320	N	L1808465-18	03/12/2018	Soil	Chromium via 6010	180 days
9179-031218-1325	N	L1808465-19	03/12/2018	Soil	Chromium via 6010	180 days
9179-031218-1330	N	L1808465-20	03/12/2018	Soil	Chromium via 6010	180 days
9179-031218-1335	N	L1808465-21	03/12/2018	Soil	Chromium via 6010	180 days
9179-031218-1340	N	L1808465-22	03/12/2018	Soil	Chromium via 6010	180 days
9179-031218-1345	N	L1808465-23	03/12/2018	Soil	Chromium via 6010	180 days
9179-031218-1350	N	L1808465-24	03/12/2018	Soil	Chromium via 6010	180 days

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-031218-1355	N	L1808465-25	03/12/2018	Soil	Chromium via 6010	180 days
9179-031218-0002	FD	L1808465-26	03/12/2018	Soil	Nickel via 6010	180 days
9179-031218-1500	N	L1808465-27	03/12/2018	Soil	Nickel via 6010	180 days
9179-031218-1505	N	L1808465-28	03/12/2018	Soil	Nickel via 6010	180 days
9179-031218-1510	N	L1808465-29	03/12/2018	Soil	Nickel via 6010	180 days
9179-031218-1515	N	L1808465-30	03/12/2018	Soil	Nickel via 6010	180 days
9179-031218-1520	N	L1808465-31	03/12/2018	Soil	Nickel via 6010	180 days
9179-031218-1525	N	L1808465-32	03/12/2018	Soil	Nickel via 6010	180 days
9179-031218-1530	N	L1808465-33	03/12/2018	Soil	Nickel via 6010	180 days
9179-031218-1535	N	L1808465-34	03/12/2018	Soil	Nickel via 6010	180 days

7.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

7.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 3.1, 3.7 Degrees C.

7.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

7.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

7.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

7.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

7.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample(s) were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1808465-21	9179-031218-1335	Arsenic, Chromium, and Nickel via 6010
L1808465	9179-031218-1535	Chromium and Nickel via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS	6010	9179-031218-1335	Chromium	65	Associated sample results (01-19, 21) may be biased low.	Potential precision issue.
MSD	6010	9179-031218-1535	Nickel	70	Associated sample results (20, 22-34) may be biased low.	Potential precision issue.

7.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%:

- 9179-031218-1335 for Total Solids
- 9179-031218-1535 for Total Solids

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD comparison for any field duplicates in this SDG are shown below.

Field Duplicate RPD Calculations:

Method: 6010				
Analyte (mg/kg)	Primary Sample ID	Duplicate Sample ID	% RPD	Assessment & Action
	9179-031218-1355	9179-031218-0001		
Chromium	22.6	16.6	30.6	None, RPD <50%

7.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
L1808465-01-19, 21	Chromium	Precision of analysis may be affected due to MS/MSD recoveries being outside of limits.	Associated sample results may be biased low.
L1808465-20, 22-34	Nickel	Precision of analysis may be affected due to MS/MSD recoveries being outside of limits.	Associated sample results may be biased low.

8. Sample Delivery Group Number L1808569

8.1 SUMMARY

This DUSR summarizes the review of SDG number L1808569. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel, with the following exceptions:

- A sample identified as 9179-031318-1535 (L1808569-34) was listed on the COC but was not received.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-031318-0001	FD	L1808569-01	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-0900	N	L1808569-02	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-0905	N	L1808569-03	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-0910	N	L1808569-04	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-0915	N	L1808569-05	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-0920	N	L1808569-06	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-0925	N	L1808569-07	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-0930	N	L1808569-08	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-0935	N	L1808569-09	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-0940	N	L1808569-10	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-0945	N	L1808569-11	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-0950	N	L1808569-12	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-0955	N	L1808569-13	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-1000	N	L1808569-14	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-1005	N	L1808569-15	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-1010	N	L1808569-16	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-1015	N	L1808569-17	03/13/2018	Soil	Arsenic via 6010	180 days
9179-031318-0002	FD	L1808569-18	03/13/2018	Soil	Nickel via 6010	180 days
9179-031318-1340	N	L1808569-19	03/13/2018	Soil	Nickel via 6010	180 days
9179-031318-1345	N	L1808569-20	03/13/2018	Soil	Nickel via 6010	180 days
9179-031318-1350	N	L1808569-21	03/13/2018	Soil	Nickel via 6010	180 days
9179-031318-1355	N	L1808569-22	03/13/2018	Soil	Nickel via 6010	180 days
9179-031318-1415	N	L1808569-23	03/13/2018	Soil	Nickel via 6010	180 days
9179-031318-1420	N	L1808569-24	03/13/2018	Soil	Nickel via 6010	180 days
9179-031318-1425	N	L1808569-25	03/13/2018	Soil	Nickel via 6010	180 days
9179-031318-1430	N	L1808569-26	03/13/2018	Soil	Nickel via 6010	180 days
9179-031318-1500	N	L1808569-27	03/13/2018	Soil	Chromium via 6010	180 days
9179-031318-1505	N	L1808569-28	03/13/2018	Soil	Chromium via 6010	180 days
9179-031318-1510	N	L1808569-29	03/13/2018	Soil	Chromium via 6010	180 days

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-031318-1515	N	L1808569-30	03/13/2018	Soil	Chromium via 6010	180 days
9179-031318-1520	N	L1808569-31	03/13/2018	Soil	Chromium via 6010	180 days
9179-031318-1525	N	L1808569-32	03/13/2018	Soil	Chromium via 6010	180 days
9179-031318-1530	N	L1808569-33	03/13/2018	Soil	Chromium via 6010	180 days

8.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for "Data of Known Quality".

8.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 3.6, 2.4 Degrees C.

8.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

8.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

8.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

8.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

8.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample(s) were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1808569-09	9179-031318-0935	Arsenic and Nickel via 6010
L1808569-26	9179-031318-1430	Chromium and Nickel via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS/MSD	6010	9179-031318-0935	Nickel	64, 65	Associated sample results (01-20) may be biased low.	Potential precision issue.
MS/MSD	6010	9179-031318-1430	Nickel	0, 923 /26	Native sample > 4x the spiked concentration.	None.

8.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%:

- 9179-031318-0935 for Total Solids
- 9179-031318-1430 for Total Solids

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD comparison for any field duplicates in this SDG are shown below.

Field Duplicate RPD Calculations:

Method: 6010				
Analyte (mg/kg)	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Assessment & Action**
	9179-031318-1425	**9179-031318-0002**		
Nickel	4210	2400	54.8	RPD >50%. Potential precision issue with original and duplicate samples.
Analyte (mg/kg)	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Assessment & Action**
	9179-031318-0930	**9179-031318-0001**		
Arsenic	203	177	13.7	None, RPD <50%

8.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
L1808569-01 – 20	Nickel	Precision of analysis may be affected due to MS/MSD recoveries being outside of limits.	Associated sample results may be biased low.
9179-031318-1425 and 3179-031318-0002	Nickel	RPD for field duplicate analysis >50%.	Precision of analysis may be affected.

9. Sample Delivery Group Number L1809609

9.1 SUMMARY

This DUSR summarizes the review of SDG number L1809609. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-032018-0001	N	L1809609-01	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-0920	N	L1809609-02	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-0915	N	L1809609-03	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-0925	N	L1809609-04	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-0930	N	L1809609-05	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-0935	N	L1809609-06	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-0940	N	L1809609-07	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-1000	N	L1809609-08	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-1005	N	L1809609-09	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-1010	N	L1809609-10	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-1015	N	L1809609-11	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-1020	N	L1809609-12	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-1025	N	L1809609-13	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-1030	N	L1809609-14	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-1035	N	L1809609-15	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-1430	N	L1809609-16	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-1435	N	L1809609-17	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-1440	N	L1809609-18	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-1445	N	L1809609-19	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-1450	N	L1809609-20	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-R1	N	L1809609-21	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-R2	N	L1809609-22	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-R3	N	L1809609-23	03/20/2018	Soil	Arsenic via 6010	180 days
9179-032018-R4	N	L1809609-24	03/20/2018	Soil	Arsenic via 6010	180 days

9.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”, with the following exceptions:

- Samples L1809609-21 through 24 were submitted with insufficient volume to perform the Total Solids analysis, and therefore, the results are not reported on a dry-weight basis. This may impact the comparability of these samples with the broader dataset.

9.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 2.4 Degrees C.

9.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

9.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

9.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

9.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

9.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample(s) were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1809609-04	9179-032018-0925	Arsenic via 6010
L1809609-21	9179-032018-R1	Arsenic via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA.

9.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%:

- 9179-032018-0925 for Total Solids

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. No field duplicates were collected in this data set.

9.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
L1809609-21 – 24	Arsenic	Samples not reported on a dry weight basis. Comparability may be affected.	Results may not be able to be compared to results in the broader dataset.

10. Sample Delivery Group Number L1808289

10.1 SUMMARY

This DUSR summarizes the review of SDG number L1808289. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-030918-0905	N	L1808289-01	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-0907	N	L1808289-02	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-0910	N	L1808289-03	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-0912	N	L1808289-04	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-0915	N	L1808289-05	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-0917	N	L1808289-06	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-0920	N	L1808289-07	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-0922	N	L1808289-08	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-0950	N	L1808289-09	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-0955	N	L1808289-10	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-1000	N	L1808289-11	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-1005	N	L1808289-12	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-1010	N	L1808289-13	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-1015	N	L1808289-14	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-1020	N	L1808289-15	03/09/2018	Soil	Arsenic via 6010	180 days
9179-030918-1025	N	L1808289-16	03/09/2018	Soil	Arsenic via 6010	180 days

10.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

10.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 2.2 Degrees C.

10.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

10.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

10.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

10.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

10.8 MATRIX SPIKE SAMPLES

Matrix spike (MS) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample were used for MS:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1808289-01	9179-030918-0905	Arsenic via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS	6010	9179-030918-0905	Arsenic	0%	None, native sample > 4x the spiked concentration.	None.

10.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%, with the following exceptions: 9179-030918-0905 for Arsenic: RPD 84%.

- 9179-030918-0905 for Total Solids

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. No field duplicates were collected in this data set.

10.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
All samples	Arsenic	Lab duplicate RPD >50%	Precision of Arsenic analysis may be affected.

11. Sample Delivery Group Number L1807550

11.1 SUMMARY

This DUSR summarizes the review of SDG number L1807550. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-030518-0001	FD	L1807550-01	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-0910	N	L1807550-02	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-0915	N	L1807550-03	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-0920	N	L1807550-04	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-0925	N	L1807550-05	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-0930	N	L1807550-06	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-0935	N	L1807550-07	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-0940	N	L1807550-08	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-0945	N	L1807550-09	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-0950	N	L1807550-10	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-0955	N	L1807550-11	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-1000	N	L1807550-12	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-1005	N	L1807550-13	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-1010	N	L1807550-14	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-1015	N	L1807550-15	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-1020	N	L1807550-16	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-1025	N	L1807550-17	03/05/2018	Soil	Arsenic via 6010	180 days
9179-030518-0002	FD	L1807550-18	03/05/2018	Soil	Lead via 6010	180 days
9179-030518-1330	N	L1807550-19	03/05/2018	Soil	Lead via 6010	180 days
9179-030518-1335	N	L1807550-20	03/05/2018	Soil	Lead via 6010	180 days
9179-030518-1340	N	L1807550-21	03/05/2018	Soil	Lead via 6010	180 days
9179-030518-1345	N	L1807550-22	03/05/2018	Soil	Lead via 6010	180 days
9179-030518-1350	N	L1807550-23	03/05/2018	Soil	Lead via 6010	180 days
9179-030518-1355	N	L1807550-24	03/05/2018	Soil	Lead via 6010	180 days
9179-030518-1400	N	L1807550-25	03/05/2018	Soil	Lead via 6010	180 days
9179-030518-1405	N	L1807550-26	03/05/2018	Soil	Lead via 6010	180 days

11.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

11.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 3.3, 2.6 Degrees C.

11.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

11.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

11.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

11.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

11.8 MATRIX SPIKE SAMPLES

Matrix spike (MS) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample were used for MS:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1807550-09	9179-030518-0945	Arsenic and Lead via 6010
L1807550-22	9179-030518-1345	Lead via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS/MSD	6010	9179-030518-0945	Arsenic	63, 153 /35	Associated sample results (01-20) may be biased.	Potential precision issue.
MS/MSD	6010	9179-030518-0945	Lead	539, 1400/76	Associated sample results (01-20) may be biased high.	Potential precision issue.
MSD	6010	9179-030518-0945	Lead	287/67	Associated sample results (21-26) may be biased high.	Potential precision issue.

11.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%:

- 9179-030518-0945 for Total Solids
- 9179-030518-1345 for Total Solids

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD comparison for any field duplicates in this SDG are shown below.

Field Duplicate RPD Calculations:

Method: 6010				
Analyte (mg/kg)	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Assessment & Action**
	9179-030518-1025	**9179-030518-0001**		
Arsenic	8.20	4.34	61.6	RPD >50%. Potential precision issue with original and duplicate samples.
Analyte (mg/kg)	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Assessment & Action**
	9179-030518-1405	**9179-030518-0002**		
Lead	56.8	80.3	34.3	RPD <50%, no action.

11.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
L1807550-01-20	Arsenic	Precision of analysis may be affected due to MS/MSD recoveries being outside of limits.	Associated sample results may be biased.
L1807550-21-26	Lead	Precision of analysis may be affected due to MS/MSD recoveries being outside of limits.	Associated sample results may be biased.
L1807550-21-26	Lead	Precision of analysis may be affected due to MS/MSD recoveries being outside of limits.	Associated sample results may be biased.
9179-030518-1025 and 9179-030518-0001	Arsenic	RPD for field duplicate analysis >50%.	Precision of analysis may be affected.

12. Sample Delivery Group Number L1810262

12.1 SUMMARY

This DUSR summarizes the review of SDG number L1810262. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-032618-0001	FD	L1810262-01	03/26/2018	Soil	Arsenic via 6010	180 days
9179-032618-0840	N	L1810262-02	03/26/2018	Soil	Arsenic via 6010	180 days
9179-032618-0845	N	L1810262-03	03/26/2018	Soil	Arsenic via 6010	180 days
9179-032618-0850	N	L1810262-04	03/26/2018	Soil	Arsenic via 6010	180 days
9179-032618-0855	N	L1810262-05	03/26/2018	Soil	Arsenic via 6010	180 days
9179-032618-0900	N	L1810262-06	03/26/2018	Soil	Arsenic via 6010	180 days
9179-032618-0905	N	L1810262-07	03/26/2018	Soil	Arsenic via 6010	180 days
9179-032618-0920	N	L1810262-08	03/26/2018	Soil	Arsenic via 6010	180 days
9179-032618-0925	N	L1810262-09	03/26/2018	Soil	Arsenic via 6010	180 days
9179-032618-0930	N	L1810262-10	03/26/2018	Soil	Arsenic via 6010	180 days
9179-032618-0935	N	L1810262-11	03/26/2018	Soil	Arsenic via 6010	180 days
9179-032618-0940	N	L1810262-12	03/26/2018	Soil	Arsenic via 6010	180 days
9179-032618-0945	N	L1810262-13	03/26/2018	Soil	Arsenic via 6010	180 days
9179-032618-1500	N	L1810262-14	03/26/2018	Soil	Lead via 6010	180 days
9179-032618-1505	N	L1810262-15	03/26/2018	Soil	Lead via 6010	180 days
9179-032618-1510	N	L1810262-16	03/26/2018	Soil	Lead via 6010	180 days
9179-032618-1515	N	L1810262-17	03/26/2018	Soil	Lead via 6010	180 days
9179-032618-1520	N	L1810262-18	03/26/2018	Soil	Lead via 6010	180 days
9179-032618-1525	N	L1810262-19	03/26/2018	Soil	Lead via 6010	180 days
9179-032618-1530	N	L1810262-20	03/26/2018	Soil	Lead via 6010	180 days
9179-032618-1535	N	L1810262-21	03/26/2018	Soil	Lead via 6010	180 days
9179-032618-1540	N	L1810262-22	03/26/2018	Soil	Lead via 6010	180 days
9179-032618-1545	N	L1810262-23	03/26/2018	Soil	Lead via 6010	180 days

12.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

12.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 2.3 Degrees C.

12.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

12.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

12.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur, with the following exceptions:

Blank Type	Date of Blank	Analyte Detected in Blank	Concentration (mg/kg)	Action	Affected Samples
Method Blank	3/27/18	Arsenic	0.116 J	Potential bias for associated samples.	None. Associated sample results are >10x the blank results.

12.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

12.8 MATRIX SPIKE SAMPLES

Matrix spike (MS) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample were used for MS:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1810262-13	9179-032618-0945	Arsenic and Lead via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS/MSD	6010	9179-032618-0945	Lead	48, 56	Associated sample results may be biased high.	Potential precision issue.

12.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%:

- 9179-032618-0945 for Total Solids

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD comparison for any field duplicates in this SDG are shown below.

Field Duplicate RPD Calculations:

Method: 6010				
Analyte (mg/kg)	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Assessment & Action**
	9179-032618-0940	**9179-032618-0001**		
Arsenic	8.73	10.3	16.3	RPD <50%. No action.

12.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
All samples.	Lead	Precision of analysis may be affected due to MS/MSD recoveries being outside of limits.	Associated sample results may be biased high.

13. Sample Delivery Group Number L1809335

13.1 SUMMARY

This DUSR summarizes the review of SDG number L1809335. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-031918-1130	N	L1809335-01	03/19/2018	Soil	Chromium via 6010	180 days
9179-031918-1135	N	L1809335-02	03/19/2018	Soil	Chromium via 6010	180 days
9179-031918-1140	N	L1809335-03	03/19/2018	Soil	Chromium via 6010	180 days
9179-031918-1145	N	L1809335-04	03/19/2018	Soil	Chromium via 6010	180 days
9179-031918-1150	N	L1809335-05	03/19/2018	Soil	Chromium via 6010	180 days
9179-031918-1155	N	L1809335-06	03/19/2018	Soil	Chromium via 6010	180 days
9179-031918-1440	N	L1809335-07	03/19/2018	Soil	Arsenic via 6010	180 days
9179-031918-1445	N	L1809335-08	03/19/2018	Soil	Arsenic via 6010	180 days
9179-031918-1450	N	L1809335-09	03/19/2018	Soil	Arsenic via 6010	180 days
9179-031918-1455	N	L1809335-10	03/19/2018	Soil	Arsenic via 6010	180 days
9179-031918-1500	N	L1809335-11	03/19/2018	Soil	Arsenic via 6010	180 days
9179-031918-1505	N	L1809335-12	03/19/2018	Soil	Arsenic via 6010	180 days
9179-031918-1510	N	L1809335-13	03/19/2018	Soil	Arsenic via 6010	180 days
9179-031918-1515	N	L1809335-14	03/19/2018	Soil	Arsenic via 6010	180 days
9179-031918-1520	N	L1809335-15	03/19/2018	Soil	Arsenic via 6010	180 days
9179-031918-1525	N	L1809335-16	03/19/2018	Soil	Arsenic via 6010	180 days
9179-031918-1530	N	L1809335-17	03/19/2018	Soil	Arsenic via 6010	180 days
9179-031918-1535	N	L1809335-18	03/19/2018	Soil	Arsenic via 6010	180 days

13.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

13.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 2.1 Degrees C.

13.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

13.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

13.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur, with the following exceptions:

Blank Type	Date of Blank	Analyte Detected in Blank	Concentration (mg/kg)	Action	Affected Samples
Method Blank	3/20/18	Arsenic	0.148 J	Potential bias for associated samples.	None. Associated sample results are >10x the blank result.
Method Blank	3/20/18	Chromium	0.068 J	Potential bias for associated samples.	None. Associated sample results are >10x the blank result.

13.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

13.8 MATRIX SPIKE SAMPLES

Matrix spike (MS) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample were used for MS:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1809335-01	9179-031918-1130	Arsenic and Chromium via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS	6010	9179-031918	Chromium	137	None, native sample > 4x the spiked concentration.	None.

13.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%, with the exception of 9179-031918-1130 for chromium RPD 23%.

- 9179-031918-1130 for Total Solids

No action is taken for the chromium result because the RPD is <50% and the RPD is due to a heterogeneous sample matrix.

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. No field duplicates were collected in this data set.

13.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. No bias issues were identified in this SDG.

14. Sample Delivery Group Number L1807701

14.1 SUMMARY

This DUSR summarizes the review of SDG number L1807701. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-030618-0001	FD	L1807701-01	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-0940	N	L1807701-02	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-0945	N	L1807701-03	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-0950	N	L1807701-04	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-0955	N	L1807701-05	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-1000	N	L1807701-06	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-1005	N	L1807701-07	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-1015	N	L1807701-08	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-1020	N	L1807701-09	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-1040	N	L1807701-10	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-1045	N	L1807701-11	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-1050	N	L1807701-12	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-1055	N	L1807701-13	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-1100	N	L1807701-14	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-1105	N	L1807701-15	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-1110	N	L1807701-16	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-1115	N	L1807701-17	03/06/2018	Soil	Lead via 6010	180 days
9179-030618-1415	N	L1807701-18	03/06/2018	Soil	Arsenic via 6010	180 days
9179-030618-1350	N	L1807701-19	03/06/2018	Soil	Arsenic via 6010	180 days
9179-030618-1355	N	L1807701-20	03/06/2018	Soil	Arsenic via 6010	180 days
9179-030618-1405	N	L1807701-21	03/06/2018	Soil	Arsenic via 6010	180 days
9179-030618-1400	N	L1807701-22	03/06/2018	Soil	Arsenic via 6010	180 days
9179-030618-1410	N	L1807701-23	03/06/2018	Soil	Arsenic via 6010	180 days
9179-030618-1420	N	L1807701-24	03/06/2018	Soil	Arsenic via 6010	180 days
9179-030618-1425	N	L1807701-25	03/06/2018	Soil	Arsenic via 6010	180 days

14.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

14.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 2.6, 2.1 Degrees C.

14.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

14.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

14.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

14.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

14.8 MATRIX SPIKE SAMPLES

Matrix spike (MS) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample were used for MS:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1807701-01	9179-030618-0001	Arsenic and Lead via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA.

14.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%, with the noted exceptions:

- 9179-030618-0001 for Lead (RPD 162%) – potential precision of analysis affected.
- 9179-032618-0945 for Total Solids

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. No field duplicates were collected in this data set.

14.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
All samples.	Lead	Precision of analysis may be affected due to lab duplicate analysis RPD >50%.	Matrix is non-homogenous and noted in case narrative, leading to high RPD. No action.

15. Sample Delivery Group Number L1809912

15.1 SUMMARY

This DUSR summarizes the review of SDG number L1809912. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-032118-0001	FD	L1809912-01	03/21/2018	Soil	Chromium and Nickel via 6010	180 days
9179-032118-0825	N	L1809912-02	03/21/2018	Soil	Chromium and Nickel via 6010	180 days
9179-032118-0830	N	L1809912-03	03/21/2018	Soil	Chromium and Nickel via 6010	180 days
9179-032118-0840	N	L1809912-04	03/21/2018	Soil	Chromium and Nickel via 6010	180 days
9179-032118-0845	N	L1809912-05	03/21/2018	Soil	Chromium and Nickel via 6010	180 days
9179-032118-1000	N	L1809912-06	03/21/2018	Soil	Chromium and Nickel via 6010	180 days
9179-032118-1005	N	L1809912-07	03/21/2018	Soil	Chromium and Nickel via 6010	180 days
9179-032118-1015	N	L1809912-08	03/21/2018	Soil	Chromium and Nickel via 6010	180 days
9179-032118-1020	N	L1809912-09	03/21/2018	Soil	Chromium and Nickel via 6010	180 days
9179-032218-0001	FD	L1809912-10	03/22/2018	Soil	Lead via 6010	180 days
9179-032218-1400	N	L1809912-11	03/22/2018	Soil	Lead via 6010	180 days
9179-032218-1405	N	L1809912-12	03/22/2018	Soil	Lead via 6010	180 days
9179-032218-1410	N	L1809912-13	03/22/2018	Soil	Lead via 6010	180 days
9179-032218-1415	N	L1809912-14	03/22/2018	Soil	Lead via 6010	180 days
9179-032218-1425	N	L1809912-15	03/22/2018	Soil	Lead via 6010	180 days
9179-032218-1430	N	L1809912-16	03/22/2018	Soil	Lead via 6010	180 days

15.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

15.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 2.7 Degrees C.

15.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

15.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

15.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

15.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

15.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1809912-09	9179-032118-1020	Chromium, Lead, Nickel via 6010
L1809912-16	9179-032218-1430	Chromium, Lead, Nickel via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS/MSD	6010	9179-032118-1020	Chromium	2320, 3790	None, native sample > 4x the spiked concentration.	None.
MSD	6010	9179-032118-1020	Lead	292	None, native sample > 4x the spiked concentration.	None.
MS/MSD	6010	9179-032118-1020	Nickel	0, 566	None, native sample > 4x the spiked concentration.	None.
MS/MSD	6010	9179-032218-1430	Chromium	0	None, native sample > 4x the spiked concentration.	None.
MS/MSD	6010	9179-032218-1430	Lead	0	None, native sample > 4x the spiked concentration.	None.

15.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%:

- 9179-032118-1020 for Total Solids

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD comparison for any field duplicates in this SDG are shown below.

Field Duplicate RPD Calculations:

Method: 6010				
Analyte (mg/kg)	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Assessment & Action**
	9179-032218-1425	**9179-032218-0001**		
Lead	2950	457	146.3	RPD >50%. Potential precision issue with original and duplicate samples.
Analyte (mg/kg)	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Assessment & Action**
	9179-032118-0840	**9179-032118-0001**		
Chromium	10100	9840	2.6	RPD <50%. No action.
Nickel	29300	28600	2.4	RPD <50%. No action.

15.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
9179-032218-1425 and 9179-032218-0001	Lead	Field duplicate RPD >50%	Potential precision affected.

16. Sample Delivery Group Number L1811349

16.1 SUMMARY

This DUSR summarizes the review of SDG number L1811349. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-040318-0930	N	L1811349-01	04/03/2018	Soil	Lead via 6010	180 days
9179-040318-0935	N	L1811349-02	04/03/2018	Soil	Lead via 6010	180 days

16.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

16.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 2.1 Degrees C.

16.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

16.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

16.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

16.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

16.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1811349-01	9179-040318-0930	Lead via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS	6010	9179-040318-0930	Lead	256	None, native sample > 4x the spiked concentration.	None.

16.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%, with the following exceptions:

- 9179-040318-0930 for Lead RPD: 28. However, RPD <50% and due to the non-homogenous nature of the matrix, this RPD is acceptable.

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. No field duplicates were collected in this data set.

16.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. No bias issues were identified in this SDG.

17. Sample Delivery Group Number L1811748

17.1 SUMMARY

This DUSR summarizes the review of SDG number L1811748. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-040518-0845	N	L1811748-01	04/05/2018	Soil	Lead via 6010	180 days
9179-040518-0850	N	L1811748-02	04/05/2018	Soil	Lead via 6010	180 days

17.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

17.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 2.5 Degrees C.

17.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

17.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

17.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

17.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

17.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1811748-01	9179-040518-0845	Lead via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS	6010	9179-040518-0845	Lead	542	None, native sample > 4x the spiked concentration.	None.

17.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%, with the following exceptions:

- 9179-040518-0845 for Lead RPD: 145%. Since the RPD is >50%, the precision of the analysis may be affected.

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. No field duplicates were collected in this data set.

17.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
All samples.	Lead	Precision of analysis may be affected due to lab duplicate analysis RPD >50%.	Matrix is non-homogenous and noted in case narrative, leading to high RPD. No action.

18. Sample Delivery Group Number L1812223

18.1 SUMMARY

This DUSR summarizes the review of SDG number L1812223. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-040918-0830	N	L1812223-01	04/09/2018	Soil	Lead via 6010	180 days
9179-040918-0835	N	L1812223-02	04/09/2018	Soil	Lead via 6010	180 days

18.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

18.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 2.3 Degrees C.

18.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

18.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

18.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

18.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

18.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1812223-01	9179-040918-0830	Lead via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS	6010	9179-040918-0830	Lead	696	None, native sample > 4x the spiked concentration.	None.

18.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%, with the following exceptions:

- 9179-040918 for Lead RPD: 56%. Since the RPD is >50%, the precision of the analysis may be affected.

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. No field duplicates were collected in this data set.

18.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
All samples.	Lead	Precision of analysis may be affected due to lab duplicate analysis RPD >50%.	Matrix is non-homogenous and noted in case narrative, leading to high RPD. No action.

19. Sample Delivery Group Number L1811684

19.1 SUMMARY

This DUSR summarizes the review of SDG number L1811684. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-040418-1000	N	L1811684-01	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1005	N	L1811684-02	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1010	N	L1811684-03	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1015	N	L1811684-04	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1040	N	L1811684-05	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1045	N	L1811684-06	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1050	N	L1811684-07	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1055	N	L1811684-08	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1110	N	L1811684-09	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1115	N	L1811684-10	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-0001	FD	L1811684-11	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1250	N	L1811684-12	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1255	N	L1811684-13	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1300	N	L1811684-14	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1305	N	L1811684-15	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1320	N	L1811684-16	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1325	N	L1811684-17	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1330	N	L1811684-18	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1335	N	L1811684-19	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1340	N	L1811684-20	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1345	N	L1811684-21	04/04/2018	Soil	Chromium and Nickel via 6010	180 days

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-040418-1350	N	L1811684-22	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1355	N	L1811684-23	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1400	N	L1811684-24	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1405	N	L1811684-25	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1410	N	L1811684-26	04/04/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040418-1415	N	L1811684-27	04/04/2018	Soil	Chromium and Nickel via 6010	180 days

19.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for "Data of Known Quality".

19.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 3.2 Degrees C.

19.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

19.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

19.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur, with the following exceptions:

Blank Type	Date of Blank	Analyte Detected in Blank	Concentration (mg/kg)	Action	Affected Samples
Method Blank	4/5/18	Chromium	0.048 J	Potential bias for associated samples.	None. Associated sample results are >10x the blank results.

19.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

19.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1811684-27	9179-040418-1415	Chromium and Nickel via 6010
L1811684-01	9179-040418-1000	Chromium and Nickel via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS/MSD	6010	9179-040418-1415	Chromium	0	None, native sample > 4x the spiked concentration.	None.
MS/MSD	6010	9179-040418-1415	Nickel	0	None, native sample > 4x the spiked concentration.	None.
MS	6010	9179-040418-1000	Chromium	2610	None, native sample > 4x the spiked concentration.	None.
MS	6010	9179-040418-1000	Nickel	0	None, native sample > 4x the spiked concentration.	None.

19.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%:

- 9179-040418-1000 for Chromium and Nickel

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD comparison for any field duplicates in this SDG are shown below.

Field Duplicate RPD Calculations:

Method: 6010				
Analyte (mg/kg)	Primary Sample ID	Duplicate Sample ID	% RPD	Assessment & Action
	9179-040418-1410	9179-040418-0001		
Chromium	2010	7670	116.9	RPD >50%. Potential precision issue with original and duplicate samples.
Nickel	5320	18800	111.8	RPD >50%. Potential precision issue with original and duplicate samples.

19.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. A summary of potential bias associated with the samples in this SDG are shown below.

Sample ID	Analyte	Assessment	Action
9179-040418-1410 and 9179-040418-0001	Chromium and Nickel	Field duplicate RPD >50%	Potential precision affected.

20. Sample Delivery Group Number L1812048

20.1 SUMMARY

This DUSR summarizes the review of SDG number L1812048. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-040618-1500	N	L1812048-01	04/06/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040618-1505	N	L1812048-02	04/06/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040618-1510	N	L1812048-03	04/06/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040618-1515	N	L1812048-04	04/06/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040618-1520	N	L1812048-05	04/06/2018	Soil	Chromium and Nickel via 6010	180 days
9179-040618-1525	N	L1812048-06	04/06/2018	Soil	Chromium and Nickel via 6010	180 days

20.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

20.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 4.6 Degrees C.

20.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

20.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

20.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

20.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

20.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1812048-01	9179-040618-1500	Chromium and Nickel via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS	6010	9179-040618-1500	Chromium	0	None, native sample > 4x the spiked concentration.	None.
MS	6010	9179-040618-1500	Nickel	0	None, native sample > 4x the spiked concentration.	None.

20.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%, with the following exceptions:

- 9179-040618-1500 for Chromium and Nickel; Chromium RPD: 22%. Since the RPD is <50%, this does not affect the usability.

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. No field duplicates were collected in this data set.

20.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. No bias issues were identified in this SDG.

21. Sample Delivery Group Number L1812390

21.1 SUMMARY

This DUSR summarizes the review of SDG number L1812390. Samples were collected in accordance with the NJDEP Field Sampling Procedures Manual dated 2005 and were preserved and shipped following standard chain of custody protocol. Samples were also received appropriately, identified correctly, and analyzed according to the monitoring schedule. Chains of custody were appropriately signed and dated by the field and/or laboratory personnel.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Collection Date	Matrix	Methods	Holding Time
9179-041018-0001	FD	L1812390-01	04/10/2018	Soil	Chromium via 6010	180 days
9179-041018-1100	N	L1812390-02	04/10/2018	Soil	Chromium via 6010	180 days
9179-041018-1500	N	L1812390-03	04/10/2018	Soil	Chromium via 6010	180 days
9179-041018-1505	N	L1812390-04	04/10/2018	Soil	Chromium via 6010	180 days
9179-041018-1510	N	L1812390-05	04/10/2018	Soil	Chromium and Nickel via 6010	180 days
9179-041018-1515	N	L1812390-06	04/10/2018	Soil	Chromium and Nickel via 6010	180 days
9179-041018-1530	N	L1812390-07	04/10/2018	Soil	Chromium and Nickel via 6010	180 days
9179-041018-1535	N	L1812390-08	04/10/2018	Soil	Chromium and Nickel via 6010	180 days

21.2 DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE REVIEW

The DKQ Conformance/Non Conformance Summary included the analytical report indicates this SDG meets the requirements for “Data of Known Quality”.

21.3 HOLDING TIMES/PRESERVATION

The samples were prepared and analyzed within the holding time and preservation criteria specified per EPA protocol.

Cooler temperatures on arrival to the laboratory were: 3.9 Degrees C.

21.4 REPORTING LIMITS AND SAMPLE DILUTION

The reporting limits for the samples within SDG met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP).

21.5 REPORTING BASIS (WET/DRY)

Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations have been made to compensate for the moisture content of the soil sample. Per the matrix and state requirements, data in this SDG were reported on a dry weight basis.

21.6 BLANK SAMPLE ANALYSIS

Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination. Method blank samples did not have detections, indicating that contamination from laboratory activities did not occur.

21.7 LABORATORY CONTROL SAMPLES

The laboratory control sample (LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. Compounds associated with the LCS analyses exhibited recoveries within the control limits specified by the SOPs.

21.8 MATRIX SPIKE SAMPLES

Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effect of the sample matrix on the sample preparation procedures and measurement methodologies. The below sample were used for MS/MSD:

Lab Sample Number	Matrix Spike/ Matrix Spike Duplicate Sample Client ID	Method(s)
L1812390	9179-041018-1515	Chromium and Nickel via 6010

The MS/MSD recoveries and the RPD between the MS and MSD results were within the acceptance limits specified by the EPA, with the following exceptions:

Sample Type	Method	Parent Sample Number	Analyte	%R/RPD	Assessment	Action
MS/MSD	6010	9179-041018-1515	Chromium	0	None, native sample > 4x the spiked concentration.	None.
MS/MSD	6010	9179-041018-1515	Nickel	4, 0	None, native sample > 4x the spiked concentration.	None.

21.9 LABORATORY AND FIELD DUPLICATE SAMPLES

The laboratory duplicate sample analysis is used by the laboratory at the time of analysis to demonstrate acceptable method precision. The following sample was used for laboratory duplicate analysis and the RPDs were all below 20%:

- 9179-041018-1515 for Total Solids

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD comparison for any field duplicates in this SDG are shown below.

Field Duplicate RPD Calculations:

Method: 6010				
Analyte (mg/kg)	Primary Sample ID	Duplicate Sample ID	% RPD	Assessment & Action
	9179-041018-1100	9179-041018-0001		
Chromium	1370	1080	23.7	RPD <50%. No action.

21.10 DATA USABILITY

The quantity of samples and their locations represent the vertical and horizontal distributions of contaminants after the various remedial actions have been completed.

The results presented in this report were found to be compliant with the data quality objects for the project and the guidelines specified by analytical method. Based on the review of this report, the data are 100% useable. No bias issues were identified in this SDG.

References

1. New Jersey Department of Environmental Protection, April 2014. Data Quality Assessment and Data Usability Evaluation Technical Guidance.
2. New Jersey Department of Environmental Protection, April 2014. Quality Assurance Project Plan Technical Guidance.
3. New Jersey Department of Environmental Protection, August 2005 (updated April 2011). Field Sampling Procedures Manual.
4. Haley & Aldrich, April 2016. Revised Quality Assurance Project Plan for the Remedial Action Activities, Ewing Township Industrial Land.

Glossary

Laboratory qualified and unqualified data are verified against the supporting documentation during the review process.

- Concentration (C) Qualifiers:
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- Sample Types:
  - N Primary Sample
  - FD Field Duplicate Sample

APPENDIX P

DLUR Correspondence

State of New Jersey

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Land Use Regulation
Mail Code 501-02A
P.O. Box 420
Trenton, New Jersey 08625-0420
www.nj.gov/dep/landuse

CATHERINE R. McCABE
Acting Commissioner

February 12, 2018

Mr. Craig P. Metzgar
Amy S. Greene Environmental Consultants, Inc.
4 Walter Foran Blvd.
Suite 209
Flemington, NJ 08822

Re: File#1102-06-0001.1 FHA/FWW110001
GM Delphi/RACER Trust Remedial Site
Block 343; Lot 1
Ewing Township, Mercer County

Dear Mr. Metzgar:

This is in response to your letter of January 3, 2018 that outlines additional, limited, remedial activities that are needed at the above project site. In September 2017, the Department signed off on the successful restoration of the areas of wetlands, open waters and riparian zones affected by the cleanup at the site. In your letter, you indicate that some of those areas require additional cleanup and restoration.

Because the nature of the activities is the same as those activities previously conducted, by way of this letter, the Department acknowledges that work will continue in these regulated areas followed by additional restoration activities and is hereby approving the activities described in your January 3, 2018 letter. The following conditions shall apply to the areas to be restored after completion of the cleanup activities described in your letter:

1. In accordance with N.J.A.C. 7:7A-11.12(e), within 60 days following the final planting of the restoration areas, the permittee shall submit a Construction Completion Report to the Division detailing as-built conditions (see below) and any changes to the approved restoration plan that were made during construction. The Construction Completion Report shall contain, at a minimum, the following information:

    a. A completed Wetland Mitigation Project Completion of Construction Form. This form is located on the Internet at http://www.nj.gov/dep/landuse/forms/index.html and certifies that the mitigation project has been constructed as designed and that the proposed area of wetland creation, restoration or enhancement has been accomplished;

b. As-Built plans which depict final grade elevations at one-foot contours and include a table of the species and quantities of vegetation that were planted including any grasses that may have been used for soil stabilization purposes;

c. Photos of the constructed wetland mitigation project with a photo location map as well as the GPS waypoints in NJ state plane coordinates NAD 1983; and

d. An explanation for any deviation from the approved mitigation proposal.

2. In accordance with N.J.A.C. 7:7A-11.12(f), the permittee shall monitor the mitigation project for 5 years after completion of construction. The Department may modify the duration of required monitoring if it determines that the plantings are established successfully at an earlier date. All monitoring reports must include the standard items identified in the checklists entitled Wetland Mitigation Monitoring Project Checklist. The Wetland Mitigation Monitoring Project Checklist is located on the Internet at http://www.nj.gov/dep/landuse/forms/index.html.

3. Once the required monitoring period has expired and the permittee has submitted the final monitoring report, the Division will make the finding that the mitigation project is either a success or a failure. This mitigation project will be considered successful if the permittee demonstrates all of the following:

   a. That the goals of the wetland mitigation project including acreage and the required transition area, as stated in the approved wetland mitigation proposal and the permit, has been satisfied. The permittee must submit a field wetland delineation of the wetland mitigation project based on the Federal Manual for Identifying and Delineating Jurisdictional Wetlands (1989) which shows the exact acreage of State open waters, emergent, scrub/shrub and/or forested wetlands in the mitigation area;

   b. The site has an 85 percent survival and 85 percent area coverage of the mitigation plantings or target hydrophytes which are species native to the area and similar to ones identified on the mitigation planting plan. All plant species in the mitigation area are healthy and thriving. All trees are at least five feet in height;

   c. The final monitoring report must include documentation demonstrating the site is less than 10 percent occupied by invasive or noxious species.

   d. The site contains hydric soils or there is evidence of reduction occurring in the soil; and,

   e. The proposed hydrologic regime as specified in the mitigation proposal has been satisfied. This criteria must be satisfied to prove the mitigation site is a wetland.

4. In accordance with N.J.A.C. 7:7A-15.16(f) the permittee shall assume all liability for accomplishing corrective work should the Division determine that the compensatory mitigation has not been 100 percent successful. If the mitigation project is considered a failure, the permittee is required to submit a revised mitigation plan in order to meet the success criteria identified above. The plan shall be submitted within 30 days of receipt of the letter from the Division indicating the wetland mitigation project was a failure. The financial surety, if required, will not be released by the Division until such time that the permittee satisfies the success criteria as stipulated above.

5. As per N.J.A.C. 7:7A-15.3(b), if the permittee fails to perform mitigation within the applicable time period the acreage of mitigation required shall be increased by 20 percent each year after the date mitigation was to begin.

If you have any questions regarding this letter, please feel free to contact me at Susan.Lockwood@dep.nj.gov or at (609)984-0580.

Sincerely,

Susan D. Lockwood

Susan D. Lockwood
Supervisor
Mitigation Unit