PHASE II
INVESTIGATION REPORT

AREA B: PARCEL B11
TRADEPOINT ATLANTIC
SPARROWS POINT, MARYLAND

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1.0 INTRODUCTION

ARM Group LLC (ARM), on behalf of Tradepoint Atlantic, has completed a Phase II Investigation of a portion of the Tradepoint Atlantic property (formerly Sparrows Point Terminal, LLC) that has been designated as Area B: Parcel B11 (the Site). Parcel B11 is comprised of 92.1 acres of the approximately 3,100-acre former steel making facility (**Figure 1**). Parcel B11 is positioned within the approximately 308-acre Coke Point Area (CPA) of the Tradepoint Atlantic property. The Site is bounded to the north by the historic Coke Oven Area (COA) within Parcel B10, and to the south by the Coke Point Landfill (CPLF) within Parcel B12.

The Phase II Investigation was performed in accordance with procedures outlined in the approved Phase II Investigation Work Plan for Area B: Parcel B11. This Work Plan (Revision 0 dated March 11, 2020) and an associated Comment Response Letter (dated June 25, 2020) were collectively approved by the Maryland Department of the Environment (MDE) and the United States Environmental Protection Agency (USEPA) via email on July 8, 2020. The Work Plan was implemented in compliance with requirements pursuant to the following:

- Administrative Consent Order (ACO) between Tradepoint Atlantic (formerly Sparrows Point Terminal, LLC) and the MDE effective September 12, 2014; and
- Settlement Agreement and Covenant Not to Sue (SA) between Tradepoint Atlantic (formerly Sparrows Point Terminal, LLC) and the USEPA effective November 25, 2014.

An application to enter the full Tradepoint Atlantic property (3,100 acres) into the Maryland Department of the Environment Voluntary Cleanup Program (MDE-VCP) was submitted to the MDE and delivered on June 27, 2014. The property's current and anticipated future use is Tier 3 (Industrial) and plans for the property include demolition and redevelopment over the next several years. Parcel B11 is also part of the acreage that remains subject to the requirements of the Multimedia Consent Decree between Bethlehem Steel Corporation, the USEPA, and the MDE (effective October 8, 1997) as documented in correspondence received from the USEPA on September 12, 2014.

1.1. SITE HISTORY

From the late 1800s until 2012, the production and manufacturing of steel was conducted at Sparrows Point. Iron and steel production operations and processes at Sparrows Point included raw material handling, coke production, sinter production, iron production, steel production, and semi-finished and finished product preparation. In 1970, Sparrows Point was the largest steel facility in the United States, producing hot and cold rolled sheets, coated materials, pipes, plates, and rod and wire. The steel making operations at Sparrows Point ceased in fall 2012.

Parcel B11 is positioned within the CPA on the Tradepoint Atlantic property, bounded to the north by the historic COA and to the south by the CPLF. The western portion of Parcel B11 is occupied by the historic Mud Disposal Area (identified as such on historical drawings), which has also been identified as the Dredged Material Containment Facility (DMCF). According to historic aerial imagery in the Phase I Environmental Site Assessment (ESA) prepared by Weaver Boos Consultants dated May 19, 2014, the area began receiving dredged material in the mid-1960s. The DMCF was previously investigated by Hillis-Carnes Engineering Associates (HCEA); therefore, the 27.9-acre DMCF was excluded for the purpose of this Phase II Investigation.

Kinder Morgan Terminals historically occupied a portion of the Site. According to its website, Kinder Morgan's activities included bulk storage of coke, pumice gypsum, granulated slag, ferro alloys, manganese ore, ferro silicon, steel coils, and break bulk cargos.

During the steel plant operations, Fritz Enterprises occupied a slag processing plant at the Site. The slag processing plant activities included the excavation of slag materials from the subsurface that were then processed through a portable screener to recover metal. MCM Construction Inc. (MCM) requested to take over the metal reclamation activities in the southern portion of the Sparrows Point property in October 2015. Additional slag reclamation is currently underway at the Site, and regrading activities are anticipated to be completed within 1 to 2 years.

1.2. OBJECTIVES

The objective of this Phase II Investigation was to characterize the nature and extent of soil contamination at the Site. A summary table of the site investigation locations, including the sample identification numbers and the analyses performed, is provided as **Appendix A**. This report includes a summary of the work performed, including the environmental setting, site investigation methods, analytical results and data usability assessment, and findings and recommendations.

As specified in the approved Parcel B11 Work Plan, groundwater was not assessed as part of this Phase II Investigation. The CPLF and COA are both subject to an ongoing groundwater monitoring program. Results from each sampling event are reported to the MDE within routine monitoring reports. The most recent Coke Point and Greys Landfills Semi-Annual Groundwater Monitoring Report for Spring 2020 is dated September 11, 2020. The most recent Coke Oven Interim Measures 2019 Progress Report is dated January 31, 2020. Extensive groundwater sampling also occurred during the CPA Corrective Measures Study (CMS), as reported in the Coke Point Area Corrective Measures Study Investigation Report dated October 22, 2020.

2.0 ENVIRONMENTAL SETTING

2.1. LAND USE AND SURFACE FEATURES

The Tradepoint Atlantic property consists of the former Sparrows Point steel mill. According to the Phase I ESA prepared by Weaver Boos dated May 19, 2014, the property is zoned Manufacturing Heavy-Industrial Major (MH-IM). Surrounding property zoning classifications (beyond Tradepoint Atlantic) include the following: Manufacturing Light (ML); Resource Conservation (RC); Density Residential (DR); Business Roadside (BR); Business Major (BM); Business Local (BL); and Residential Office (RO). Light industrial and commercial properties are located northeast of the property and northwest of the property across Bear Creek. Residential areas of Edgemere and Fort Howard are located northeast of the property across Jones Creek and to the southeast across Old Road Bay, respectively. Residential and commercial areas of Dundalk are located northwest of the property across Bear Creek.

The base elevation of the Site is between approximately 10 and 14 feet above mean sea level (amsl) and relatively flat, but numerous large stockpiles are located in the eastern half of the Site at higher elevations. As regrading continues in the CPA, the proposed final ground surface elevation for Parcel B11 is 12 feet amsl, except in areas where the current grade is already below this elevation. The base elevation in the DMCF in the western half of the Site is approximately 18 to 19 feet amsl, with an elevated slag berm surrounding the facility. The eastern and western edges of the Site slope down to meet the surrounding water bodies of Bear Creek, the Turning Basin, and the Patapsco River (at 0 feet amsl). According to Figure B-2 of the Stormwater Pollution Prevention Plan (SWPPP) Revision 8 dated April 30, 2020, surface water runoff from the western half of the Site is discharged into Bear Creek and runoff from the eastern half of the Site is discharged into the Turning Basin and the Patapsco River. A gravel filter berm surrounds the shoreline perimeter of the CPA.

2.2. REGIONAL GEOLOGY

The Site is located within the Atlantic Coastal Plain Physiographic Province (Coastal Plain). The western boundary of the Coastal Plain is the "Fall Line", which separates the Coastal Plain from the Piedmont Plateau Province. The Fall Line runs from northeast to southwest along the western boundary of the Chesapeake Bay, passing through Elkton (MD), Havre de Grace (MD), Baltimore City (MD), and Laurel (MD). The eastern boundary of the Coastal Plain is the off-shore Continental Shelf.

The unconsolidated sediments beneath the Site belong to the Talbot Formation (Pleistocene), which is then underlain by the Cretaceous formations which comprise the Potomac Group (Patapsco Formation, Arundel Formation, and the Patuxent Formation). The Potomac Group formations are comprised of unconsolidated sediments of varying thicknesses and types, which

may be several hundred feet to several thousand feet thick. These unconsolidated formations may overlie deeper Mesozoic and/or Precambrian bedrock. Depth to bedrock is approximately 700 feet within the Site.

2.3. SITE GEOLOGY

Groundcover at the Site is comprised of 100% non-native fill materials (i.e., slag), based on the approximate shoreline of the Sparrows Point Peninsula in 1916, as shown on **Figure 2** (adapted from Figure 2-20 in the Description of Current Conditions (DCC) Report prepared by Rust Environment and Infrastructure dated January 1998).

In general, the encountered subsurface geology was comprised of non-native fill materials including slag, sand, brick, and gravel, with only minor observations of clay and other components. Shallow groundwater was observed in soil cores at depths from 4 to 14 feet below ground surface (bgs) across the Site; however, groundwater was not encountered at every location. Soil boring observation logs are provided in **Appendix B**. All Unified Soil Classification System (USCS) group symbols provided on the attached boring logs are from visual observations, and not from laboratory testing.

3.0 SITE INVESTIGATION

A total of 74 soil samples (from 33 boring locations) were collected for analysis between August 10 and October 19, 2020 as part of the Parcel B11 Phase II Investigation. This Phase II Investigation utilized methods and protocols that followed the procedures included in the Quality Assurance Project Plan (QAPP) dated April 5, 2016 which was approved by the agencies to support the investigation and remediation of the Tradepoint Atlantic property. Information regarding the project organization, field activities and sampling methods, sampling equipment, sample handling and management procedures, the selected laboratory and analytical methods, quality control and quality assurance procedures, investigation-derived waste (IDW) management methods, and reporting requirements are described in detail in the approved Parcel B11 Work Plan and the QAPP.

All site characterization activities were conducted under the property-wide Health and Safety Plan (HASP) provided as Appendix D of the approved Work Plan.

3.1. SAMPLE TARGET IDENTIFICATION

Previous activities within and around the buildings and facilities located on the Tradepoint Atlantic property may have been historical sources of environmental contamination. If present, source areas were identified as targets for sampling through a careful review of historical documents. When a sampling target was identified, a boring was placed at or next to its location using Geographic Information Systems (GIS) software (ArcMap Version 10.6).

Sampling targets included, as applicable, 1) RECs shown on the REC Location Map provided in Weaver Boos' Phase I ESA, 2) additional findings (non-RECs) from the Phase I ESA which were identified as potential environmental concerns, and 3) Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) identified from the DCC Report prepared by Rust Environment and Infrastructure. There were no RECs, SWMUs, or AOCs identified at the Site based on the information provided in the Phase I ESA or DCC Report.

Four sets of historical drawings were also reviewed to identify potential sampling targets for the Site. These drawings included the 5000 Set (Plant Arrangement), the 5100 Set (Plant Index), the 5500 Set (Plant Sewer Lines), and a set of drawings indicating coke oven gas distribution drip leg locations. Drip legs are points throughout the distribution system where coke oven gas condensate was removed from the gas pipelines. The condensate from the drip legs was typically discharged to drums, although it is possible some spilled out of the drums and onto the ground. There were no drip legs identified inside the boundary of Parcel B11.

A summary of the specific drawings covering the Site is presented in **Table 1**. Sampling target locations were identified if the historical drawings depicted industrial activities or a specific feature at a location that may have been a source of environmental contamination that potentially impacted

the Site. Based on the review of plant drawings, additional non-REC sampling targets were identified at the Site which included the following: Transformer Pad, Scrap Reclaiming Pit, and Scrap Screening Station. All of the targeted features have been previously demolished. Additional sample locations were distributed to provide complete coverage of the Site and fill in areas with insufficient coverage (perimeter of the DMCF and material stockpile areas). A summary table of the investigation plan, along with the applicable boring identification numbers and the analyses performed, has been provided as **Appendix A**.

During the completion of fieldwork, it was necessary to shift several borings from the approved locations given in the Work Plan, primarily due to equipment refusal and access restrictions caused by the presence of large stockpiles. **Table 2** provides the identification numbers of the field adjusted borings, the coordinates of the proposed and final locations, and the distance/direction of the field shifts. By necessity, three borings (B11-023-SB, B11-026-SB, and B11-027-SB) were shifted slightly outside of Parcel B11 onto the adjacent Parcel B12.

The density of soil borings met the requirements set forth in QAPP Worksheet 17 – Sampling Design and Rationale. Parcel B11 contains a total of 92.1 acres. The 27.9-acre DMCF was previously investigated by HCEA; therefore, the facility was excluded when calculating the sampling density requirements for this Phase II Investigation. The total remaining area of the Site (64.2 acres) was evaluated according to the sampling density requirements for areas without engineered barriers. In accordance with the relevant sampling density requirements, a minimum of 33 soil borings were required to cover the area without engineered barriers. A total of 33 soil borings were completed during the Phase II Investigation.

3.2. SOIL INVESTIGATION

Continuous core soil borings were advanced at 33 locations across Parcel B11 to assess the presence or absence of soil contamination, and to assess the vertical distribution of any encountered contamination (**Figure 3**). The 33 continuous core soil borings were advanced to a maximum depth of 21 feet bgs using the Geoprobe® MC-7 Macrocore soil sampler (surface to 10 feet bgs) and the Geoprobe® D-22 Dual-Tube Sampler (depths >10 feet bgs) and/or the Terra Sonic International: TSi 150CC. The sonic drill rig was used at select borings that had previously encountered equipment refusal when using the conventional Geoprobe®. At each of the 33 boring locations, each soil core was visually inspected and screened with a hand-held photoionization detector (PID) prior to logging soil types. Soil boring logs have been included as **Appendix B**, and the PID calibration log has been included as **Appendix C**. The USCS group symbols provided on the attached boring logs are based on visual observations (not laboratory testing).

In each boring, one shallow sample was collected from the 0 to 1 foot depth interval. If unsuitable surface cover materials (such as concrete or asphalt pavement) were present, the first 1 foot of soil beneath this layer would be collected as the shallow sample; however, no such cover materials were observed on Parcel B11. An underlying sample was collected from the 4 to 5 foot depth

interval from each continuous core soil boring, but could be adjusted based on field observations. If the PID or other field observations indicated contamination to exist at a depth greater than 3 feet bgs but less than 9 feet bgs, and above the water table, the sample from the deeper 4 to 5 foot interval was shifted to the alternate depth interval. One additional set of soil samples was also collected from the 9 to 10 foot depth interval if groundwater had not been encountered. The 10-foot bgs samples were held by the laboratory prior to analysis in accordance with the requirements given in the Parcel B11 Work Plan. These project-specific requirements for the analysis of 10-foot bgs samples are further described below. It should be noted that soil samples were not collected from a depth that was below the water table.

In several cases, the top sampling interval (typ. 0 to 1 foot bgs) was adjusted downward due to the planned regrading activities on the Site. If the top sampling interval was shifted, the underlying sample intervals were adjusted accordingly. The sample interval adjustments were conducted in accordance with the procedures described in the Parcel B11 Work Plan Comment Response Letter dated June 25, 2020. The proposed final ground surface elevation for Parcel B11 is 12 feet amsl, except in areas where the current grade is already below this elevation. Therefore, the thickness of the material that is proposed to be reclaimed at each sample location was used to determine the depth of the uppermost sample interval. For example, a location with a current elevation of 14 feet amsl would have its uppermost sample collected in the interval from 2 to 3 feet bgs. All soil collection procedures were implemented as usual, accounting for the adjusted sample depths. Please note that no sample interval adjustments were made for the borings targeting the perimeter of the DMCF (even if the elevation exceeds 12 feet amsl) because it is not anticipated that the slag reclamation will impact the berm surrounding the DMCF.

Soil sampling activities were conducted in accordance with the procedures and methods referenced in **Field Standard Operating Procedure (SOP) Numbers 008, 009, 012, and 013** provided in Appendix A of the QAPP. Sample containers, preservatives, and holding times for the sample analyses are listed in the QAPP Worksheet 19 & 30 – Sample Containers, Preservation, and Holding Times. Down-hole soil sampling equipment was decontaminated after soil sampling had been concluded at each location, according to the procedures and methods referenced in **Field SOP Number 016** provided in Appendix A of the QAPP.

Each soil sample collected during this investigation was submitted to Pace Analytical Services, Inc. (PACE) for analysis. As stated above, the deep samples (typ. 10-foot bgs) were held prior to analysis in accordance with the Parcel B11 Work Plan requirements. Excluding these deep samples, the remaining soil samples were analyzed for Target Compound List (TCL) semi-volatile organic compounds (SVOCs) via USEPA Method 8270, Oil & Grease via USEPA Method 9071, total petroleum hydrocarbon (TPH) diesel range organics (DRO) and gasoline range organics (GRO) via USEPA Method 8015, Target Analyte List (TAL) Metals via USEPA Methods 6010 and 7471, hexavalent chromium via USEPA Method 7196, and cyanide via USEPA Method 9012. Shallow soil samples collected across the Site were analyzed for polychlorinated biphenyls (PCBs)

via USEPA Method 8082. Samples from any depth interval with a sustained PID reading of greater than 10 ppm were also analyzed for TCL volatile organic compounds (VOCs) via USEPA Method 8260. The soil samples were also submitted to Alpha Analytical, Inc. (Alpha) for analysis of polynuclear aromatic hydrocarbons (PAHs) via USEPA Method 8270 SIM.

If the PID reading from the deep sampling interval was less than 10 ppm, all parameters were held by the laboratory pending the analysis of the overlying 0 to 1 and 4 to 5 foot bgs (or field adjusted) samples. If the deep sampling interval exhibited a sustained PID reading of 10 ppm or greater, the sample was released to be analyzed for VOCs, SVOCs, TPH-DRO, TPH-GRO, and Oil & Grease. However, the samples for metals and cyanide were still held by the laboratory pending the analysis of the 0 to 1 and 4 to 5 foot bgs interval samples. If the preliminary laboratory results from the 4 to 5 foot bgs interval indicated exceedances of the Project Action Limits (PALs) for any constituents, the held sample from the deep interval was then released to be analyzed for those constituents that exhibited PAL exceedances in the overlying sample.

3.3. MANAGEMENT OF INVESTIGATION-DERIVED WASTE (IDW)

In accordance with **Field SOP Number 005** provided in Appendix A of the QAPP, IDW generated during this Phase II Investigation was containerized in 55-gallon (DOT-UN1A2) drums. The types of IDW that were generated during this Phase II Investigation included the following:

- soil cuttings generated from soil borings;
- decontamination fluids; and
- used personal protective equipment

Following the completion of field activities, two composite samples were gathered with aliquots from the Parcel B11 Phase II IDW soil drums for waste characterization. Two composite samples were required because the investigation was performed in two distinct phases (Geoprobe® and sonic drill rig) that both generated soil waste from the Site. Following the analysis, the waste soil from both investigation phases was characterized as non-hazardous. A list of all results from the soil waste characterization procedure can be found in **Table 3**. IDW drums containing aqueous materials (including aqueous waste generated during the Parcel B11 Phase II Investigation) were characterized by preparing composite samples from randomly selected drums. The composite samples included aliquots from several individual drums that were chosen as a subset of the aqueous drums being staged on-site at the date of collection. Based on this analysis, the aqueous waste was also characterized as non-hazardous. A list of all results from the aqueous waste characterization procedure can be found in **Table 4**.

The parcel-specific IDW drum log from this Phase II Investigation is included as **Appendix D**. All IDW procedures were carried out in accordance with methods referenced in the QAPP Worksheet 21 – Field SOPs and Appendix A of the QAPP.

4.0 ANALYTICAL RESULTS

4.1. SOIL CONDITIONS

Soil analytical results were screened against PALs established in the property-wide QAPP (or other direct guidance from the agencies; i.e., TPH/Oil & Grease) to determine PAL exceedances. PALs are generally based on the USEPA's Regional Screening Levels (RSLs) for the Composite Worker exposure to soil. The Composite Worker is defined by the USEPA as a long-term receptor exposed during the workday who is a full-time employee that spends most of the workday conducting maintenance activities (which typically involve on-site exposures to surface soils) outdoors.

The analytical results for the detected parameters in soil are summarized and compared to the PALs in **Table 5** (Organics) and **Table 6** (Inorganics). The laboratory Certificates of Analysis (including Chains of Custody) and Data Validation Reports (DVRs) have been included as electronic attachments. The DVRs contain a glossary of qualifiers for the final flags assigned to individual results in the attached summary tables.

4.1.1. Soil Conditions: Organic Compounds

Table 5 provides a summary of VOCs detected above the laboratory's method detection limits (MDLs) in the soil samples collected from across the Site. Only samples which exhibited PID readings greater than 10 ppm were analyzed for VOCs. There were no VOCs detected above their respective PALs.

Table 5 provides a summary of SVOCs detected above the laboratory's MDLs in the soil samples collected from across the Site. The PALs for relevant PAHs have been adjusted upward based on revised toxicity data published in the USEPA RSL Composite Worker Soil Table. Therefore, any soil exceedances for PAHs are based on the adjusted PALs rather than those presented in the QAPP. Three PAHs (benz[a]anthracene, benzo[a]pyrene, and naphthalene) were identified at concentrations above (or equal to) their respective PALs. Benz[a]anthracene was detected equal to its PAL of 21 mg/kg in only one sample (B11-026-SB-1). Benzo[a]pyrene was detected above its PAL of 2.1 mg/kg in 12 samples with a maximum detection of 14 mg/kg in B11-026-SB-1. Naphthalene was detected above its PAL of 8.6 mg/kg in four samples with a maximum detection of 61 mg/kg in B11-026-SB-9. The SVOC PAL exceedances are shown on **Figure 4**.

Shallow soil samples collected across the Site from the 0 to 1 foot bgs (or field adjusted) interval were analyzed for PCBs. **Table 5** provides a summary of PCBs detected above the laboratory's MDLs. There were no PCBs detected above their respective PALs.

Table 5 provides a summary of the TPH/Oil & Grease detections above the laboratory's MDLs in the soil samples collected from across the Site. There were no PAL exceedances of TPH-GRO. Oil & Grease exceeded the PAL of 6,200 mg/kg in three soil samples (B11-026-SB-9, B11-026-

SB-10, and B11-027-SB-5) with a maximum detection of 24,800 mg/kg in B11-026-SB-9. TPH-DRO exceeded the PAL of 6,200 mg/kg in two soil samples (B11-026-SB-9 and B11-026-SB-10) with a maximum detection of 24,500 mg/kg in B11-026-SB-10. Soil boring B11-026-SB exhibited the most significant TPH/Oil & Grease exceedances; the single exceedance at B11-027-SB was an Oil & Grease detection of 7,590 mg/kg (only slightly above the PAL). The TPH/Oil & Grease PAL exceedances are shown on **Figure 5**.

Evidence of non-aqueous phase liquid (NAPL) was also documented in soil boring B11-026-SB via the observation of a product sheen below groundwater. This soil boring with evidence of NAPL is highlighted along with the analytical PAL exceedances on **Figure 5**. No physical evidence of NAPL was observed in any other soil borings completed during this investigation. In accordance with the Parcel B11 Work Plan requirements, a NAPL screening piezometer with a screen interval from 11 to 21 feet bgs was installed as B11-026-PZ. The screening piezometer was then checked for the potential presence of NAPL using an oil-water interface probe. After 1 week of equilibration time, 1.85 feet of light NAPL (LNAPL) had accumulated in the piezometer casing. Additional NAPL delineation activities are ongoing in the area of B11-026-PZ. The delineation findings will be reported to the MDE in a separate NAPL Completion Report.

4.1.2. Soil Conditions: Inorganic Constituents

Table 6 provides a summary of inorganic constituents detected above the laboratory's MDLs in the soil samples collected from across the Site. Five inorganic constituents (arsenic, lead, manganese, thallium, and vanadium) were detected above their respective PALs. Arsenic was detected above (or equal to) its PAL of 3 mg/kg in 37 total soil samples analyzed for this constituent with a maximum detection of 25.9 mg/kg in B11-015-SB-5. Lead was detected above its PAL of 800 mg/kg in one sample (B11-027-SB-1) with a detection of 1,080 mg/kg. Manganese was detected above its PAL of 26,000 mg/kg in 17 samples with a maximum detection of 64,800 mg/kg in B11-011-SB-2. Thallium was detected above its PAL of 12 mg/kg in 31 samples with a maximum detection of 85.4 mg/kg in B11-018-SB-8. Vanadium was detected above its PAL of 5,800 mg/kg in three samples with a maximum detection of 9,980 mg/kg in B11-011-SB-2. The inorganic PAL exceedances are shown on **Figure 6**.

4.1.3. Soil Conditions: Results Summary

Table 5 and **Table 6** provide a summary of the detected organic compounds and inorganics in the soil samples submitted for laboratory analysis, while **Figure 4** through **Figure 6** present the soil sample results that exceeded the PALs. PAL exceedances in soil within Parcel B11 were limited to three PAHs (benz[a]anthracene, benzo[a]pyrene, and naphthalene), Oil & Grease, TPH-DRO, and five metals (arsenic, lead, manganese, thallium, and vanadium). **Table 7** provides a summary of results for all PAL exceedances in soil, including maximum values and detection frequencies. VOCs, PCBs, and TPH-GRO were not detected above their respective PALs and are not considered to be significant soil contaminants in Parcel B11.

Lead, PCBs, and TPH/Oil & Grease are subject to special requirements as designated by the agencies: lead results above 10,000 mg/kg are subject to additional delineation (and possible excavation), PCB results above 50 mg/kg are subject to delineation and excavation, and TPH/Oil & Grease results above 6,200 mg/kg should be evaluated for the potential presence and mobility of NAPL in any future development planning:

- There were no locations where detections of lead exceeded 10,000 mg/kg, the designated threshold at which delineation would be required.
- There were no locations where detections of PCBs exceeded 50 mg/kg, the designated threshold at which delineation and excavation would be required.
- There were no PAL exceedances of TPH-GRO in any of the soil samples collected at the Site. Oil & Grease had three PAL exceedances and TPH-DRO had two PAL exceedances, all of which were identified at two boring locations (B11-026-SB and B11-027-SB). Evidence of NAPL was also documented at location B11-026-SB, which exhibited the most significant TPH/Oil & Grease PAL exceedances. Additional NAPL delineation activities are ongoing at B11-026-SB, and the delineation findings will be reported to the MDE in a separate NAPL Completion Report. No physical evidence of NAPL was observed in any other soil borings completed during this investigation. B11-026-SB and B11-027-SB should be considered for proximity to proposed utilities in any future development plans.

4.2. GROUNDWATER CONDITIONS – COKE POINT INVESTIGATIONS

As specified in the approved Parcel B11 Work Plan, groundwater was not assessed as part of this Phase II Investigation. The CPLF and COA are both subject to an ongoing groundwater monitoring program. Results from each sampling event for the CPLF and COA are reported to the MDE within routine monitoring reports. The most recent Coke Point and Greys Landfills Semi-Annual Groundwater Monitoring Report for Spring 2020 is dated September 11, 2020. The most recent Coke Oven Interim Measures 2019 Progress Report is dated January 31, 2020. Extensive groundwater sampling also occurred during the CPA CMS, as reported in the Coke Point Area Corrective Measures Study Investigation Report dated October 22, 2020. The complete findings from these separate groundwater investigations are provided in the referenced reports.

The COA to the north of the Site has several operational interim measures remediation cells. A portion of one of the COA remediation cells (Cell 5) extends onto Parcel B11. As documented within the Parcel B11 Work Plan Comment Response Letter dated June 25, 2020, the MDE has noted that depending on future development plans and the final grade of the Site, soil gas sampling may be required to evaluate potential vapor intrusion (VI) risks/hazards.

5.0 DATA USABILITY ASSESSMENT

The approved property-wide QAPP specified a process for evaluating data usability in the context of meeting project goals. Specifically, the goal of the Phase II Investigation is to determine if potentially hazardous substances or petroleum products (VOCs, SVOCs, PCBs, metals, cyanide, or TPH/Oil & Grease) are present in Site media (soil) at concentrations that could pose an unacceptable risk to Site receptors. Individual results are compared to the PALs established in the QAPP (i.e., the USEPA RSLs) or based on other direct guidance from the agencies, to identify exceedances in each environmental medium.

Quality assurance and quality control (QA/QC) samples were collected during the field studies to evaluate field/laboratory variability. A summary of QA/QC samples associated with this investigation has been included as **Appendix E**. The following QA/QC samples were required by the QAPP to support the data validation:

- Trip Blank – at a rate of one per cooler with VOC samples per day
  - Soil – VOCs only
- Blind Field Duplicate – at a rate of one per twenty samples
  - Soil – VOCs, SVOCs, Metals, TPH-DRO, TPH-GRO, Oil & Grease, PCBs, hexavalent chromium, and cyanide
- Matrix Spike/Matrix Spike Duplicate – at a rate of one per twenty samples
  - Soil – VOCs, SVOCs, Metals, TPH-DRO, TPH-GRO, Oil & Grease, PCBs, and hexavalent chromium
- Field Blank and Equipment Blank – at a rate of one per twenty samples
  - Soil – VOCs, SVOCs, Metals, TPH-DRO, TPH-GRO, Oil & Grease, hexavalent chromium, and cyanide

The QA/QC samples were collected and analyzed in accordance with the QAPP Worksheet 12 – Measurement Performance Criteria, QAPP Worksheet 20 – Field Quality Control, and QAPP Worksheet 28 – Analytical Quality Control and Corrective Action.

5.1. DATA VERIFICATION

A verification review was performed on documentation generated during sample collection and analysis. The verification included a review of field log books, field data sheets, and Chains of Custody to ensure that all planned samples were collected, and to ensure consistency with the field methods and decontamination procedures specified in the QAPP Worksheet 21 – Field SOPs and Appendix A of the QAPP. In addition, calibration logs were reviewed to ensure that field equipment was calibrated at the beginning of each day and re-checked as needed. The PID calibration log has been provided in **Appendix C**.

The laboratory deliverables were reviewed to ensure that all records specified in the QAPP as well as necessary signatures and dates are present. Sample receipt records were reviewed to ensure that the sample condition upon receipt was noted, and any missing/broken sample containers (if any) were noted and reported according to plan. The data packages were compared to the Chains of Custody to verify that results were provided for all collected samples. The data package case narratives were reviewed to ensure that all exceptions (if any) are described.

5.2. DATA VALIDATION

USEPA Stage 2B data validation was completed for a representative 30% (minimum) of the environmental sample analyses performed by PACE and Alpha and supporting Level IV Data Package information by Environmental Data Quality Inc. (EDQI). The DVRs provided by EDQI have been included as electronic attachments.

Sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. The Stage 2B review was performed as outlined in "Guide for Labeling Externally Validated Laboratory Analytical Data for Superfund Use", EPA-540-R-08-005. Results have been validated or qualified according to general guidance provided in "USEPA National Functional Guidelines for Inorganic Superfund Data Review (ISM02.1)", USEPA October 2013. Region III references this guidance for validation requirements. This document specifies procedures for validating data generated for Contract Laboratory Program (CLP) analyses. The approved property-wide QAPP dated April 5, 2016 and the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data.

The PACE-Greensburg (PA) laboratory facility implements quality assurance and reporting requirements through the TNI certification program with the State of Pennsylvania; which is accepted by Maryland. Since late-January 2017, these requirements include the flagging of contaminants with a "B" qualifier when an analyte is detected in an associated laboratory method blank, regardless of the level of the contaminant detected in the sample. A method blank is analyzed at a rate of one blank for each 20 sample analytical batch. The USEPA has previously specified that results flagged with the "B" qualifier do not represent legitimate detections. They have also specified that results flagged with a "JB" qualifier are invalid, and any such results should be revised to display the "B" qualifier only.

Although elevated sample results may be "B" qualified by the laboratory as non-detects (due to low-level blank detections), EDQI corrects any erroneous "B" qualifiers during the data validation procedure to avoid under-reporting analytical detections. EDQI removes the "B" qualifiers for relevant samples according to the guidance given in the table below. Therefore, a result originally flagged with a "B" qualifier in the laboratory certificate may be reported as a legitimate detection without this qualifier. Likewise, a result originally flagged with a "JB" qualifier in the laboratory

certificate may be reported as a "J" qualifier if the erroneous "B" qualifier can be eliminated, but would be reported as a "B" qualified non-detect result if the original "B" qualifier is legitimate.

Blank Result	Sample Result	Qualifying Action
Result less than RL	Result less than RL	Result is Qualified "B"
	Result greater than RL	Remove "B"
Result greater than RL	Result less than Blank Result	Result is Qualified "B"
	Result greater than Blank Result	Remove "B"

RL = Reporting Limit

As directed by EDQI, ARM has reviewed all non-validated laboratory reports (those which were not designated to be reviewed by EDQI), and applied the same validation corrections to any relevant "B" or "JB" qualified results. This review of the non-validated data ensures that any elevated detections of parameters, including those which may exceed the PALs, are not mistakenly reported as non-detect values simply because they did not undergo the formal validation procedure by EDQI. ARM has also revised the non-validated results to eliminate any laboratory-specific, non-standardized qualifiers (L2, 6c, ip, 4c, etc.), which are customarily removed by EDQI during the validation procedure.

5.3. DATA USABILITY

The data were evaluated with respect to the quality control elements of precision, bias, representativeness, comparability, completeness, and sensitivity relative to data quality indicators and performance measurement criteria outlined in QAPP Worksheet 12 – Measurement Performance Criteria. The following discussion details deviation from the performance measurement criteria, and the impact on data quality and usability.

The measurement performance criteria of precision and bias were evaluated in the data validation process as described in the DVRs provided as electronic attachments. Where appropriate, potential limitations in the results have been indicated through final data flags. These flags indicate whether particular data points were quantitative estimates, biased high/low, associated with blank contamination, etc. Individual data flags are provided with the results in the detection summary tables. A qualifier code glossary is included with each DVR provided by EDQI. Particular results may have been marked with the "R" flag if the result was deemed to be unreliable and was not included in any further data evaluation. The analytical soil results that were rejected during data validation are provided in **Table 8**. A discussion of data completeness (the proportion of valid data) is included below.

Representativeness is a measure of how accurately and precisely the data describe the Site conditions. Representativeness of the samples submitted for analysis was ensured by adherence

to standard sampling techniques and protocols, as well as appropriate sample preservation prior to analysis. Sampling was conducted in accordance with the QAPP Worksheet 21 – Field SOPs and Appendix A of the QAPP. Specific Field SOPs applicable to the assessment of representativeness include **Field SOP Numbers 008, 009, 010, 011, 017, and 024**. Review of the field notes and laboratory sample receipt records indicated that sample collection at the Site was representative, with no significant deviations from the SOPs.

Comparability describes the degree of confidence in comparing two sets of data. Comparability is maintained across multiple datasets by the use of consistent sampling and analytical methods across multiple project phases. Comparability of sample results was ensured through the use of approved standard sampling and analysis methods outlined in the QAPP. QA/QC protocols help to maintain the comparability of datasets, and in this case were assessed via blind duplicates, blank samples, and spiked samples, where applicable. No significant deviations from the QAPP were noted in the dataset.

Sensitivity is a determination of whether the analytical methods and quantitation limits will satisfy the requirements of the project. The laboratory reports were reviewed to verify that reporting limits met the quantitation limits for specific analytes provided in QAPP Worksheet #15 – Project Action Limits and Laboratory-Specific Detection/Quantitation Limits. In general, the laboratory reporting limits met the detection and quantitation limits specified in the QAPP.

Completeness is expressed as a ratio of the number of valid data points to the total number of analytical data results. Non-usable ("R" flagged) data results were determined through the data validation process. The approved QAPP specifies that the completeness of data is assessed by professional judgement, but should be greater than or equal to 90%. Data completeness for each compound is provided in **Appendix F**. This evaluation of completeness includes only the representative 30% (minimum) of sample results which were randomly selected for validation.

A total of 13 analytes did not meet the completeness goal of 90% for soils. Among these compounds, 11 acid-extractable SVOCs (2,3,4,6-tetrachlorophenol, 2,4,5-triclorophenol, 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2,4-dimethylphenol, 2,4-dinitrophenol, 2-chlorophenol, 2-methylphenol, 3&4-methylpenol, pentachlorophenol, and phenol) had completeness ratios between 60% and 80%. The rejection of some acid-extractable SVOC data has not been uncommon on the property due to the highly alkaline conditions typical of slag fill. Hexavalent chromium (83%) and 1,4-dioxane (0%) also had completeness ratios below 90%. The rejection of the results for 1,4-dioxane has not been uncommon for solid matrix data obtained from the Tradepoint Atlantic property. None of these 13 listed compounds with a data completeness ratio below 90% had PAL exceedances in any soil samples. Overall, the soil data can be used as intended and no significant data gaps were identified.

6.0 FINDINGS AND RECOMMENDATIONS

The objective of this Parcel B11 Phase II Investigation was to characterize the nature and extent of soil contamination at the Site. During the Phase II Investigation, a total of 74 soil samples (from 33 boring locations) were collected and analyzed. The sampling and analysis plan for the parcel was developed to target specific features that represented a potential release of hazardous substances and/or petroleum products to the environment, as well as providing general site coverage. Soil samples were analyzed for VOCs, SVOCs, TPH-DRO/GRO, Oil & Grease, TAL-Metals, hexavalent chromium, cyanide, and/or PCBs in accordance with the requirements of the parcel-specific soil sampling plan.

6.1. SOIL

The concentrations of constituents in the soil have been characterized by the Phase II Investigation to provide estimates of exposure point concentrations to support risk assessment.

PCB concentrations are below levels that would warrant delineation and evaluation of a removal remedy (50 mg/kg). Additionally, lead concentrations were below the mandatory delineation threshold (10,000 mg/kg). No further action is required with respect to PCBs or lead at the Site. There were no soil PAL exceedances identified for VOCs, PCBs, or TPH-GRO, indicating that these compounds are not significant contaminants in soil at the Site.

PAL exceedances in soil within Parcel B11 were limited to three PAHs (benz[a]anthracene, benzo[a]pyrene, and naphthalene), five metals (arsenic, lead, manganese, thallium, and vanadium), Oil & Grease, and TPH-DRO. The maximum detections of the PAH exceedances were 21 mg/kg for benz[a]anthracene in B11-026-SB-1, 14 mg/kg for benzo[a]pyrene in B11-026-SB-1, and 61 mg/kg for naphthalene in B11-026-SB-9. The maximum detections of the metals exceedances were 25.9 mg/kg for arsenic in B11-015-SB-5, 1,080 mg/kg for lead in B11-027-SB-1, 64,800 mg/kg for manganese in B11-011-SB-2, 85.4 mg/kg for thallium in B11-018-SB-8, and 9,980 mg/kg for vanadium in B11-011-SB-2. Oil & Grease had a maximum detection of 24,800 mg/kg in B11-026-SB-9, and TPH-DRO had a maximum detection of 24,500 mg/kg in B11-026-SB-10. TPH/Oil & Grease PAL exceedances were documented in only two soil borings (B11-026-SB and B11-027-SB) which should be considered for proximity to any future proposed utilities.

Soil boring B11-026-SB exhibited the most significant TPH/Oil & Grease and SVOC PAL exceedances. A NAPL product sheen was also documented below groundwater at B11-026-SB. No physical evidence of NAPL was observed in any other soil borings completed during this investigation. Based on the observed sheen, a NAPL screening piezometer was installed as B11-026-PZ. After 1 week of equilibration time, 1.85 feet of LNAPL accumulated in the piezometer casing. Additional NAPL delineation activities are ongoing at B11-026-SB, and the delineation findings will be reported to the MDE in a separate NAPL Completion Report.

6.2. GROUNDWATER

Groundwater is not used on the Tradepoint Atlantic property (and is not proposed to be utilized); therefore, there is no potential for direct human exposure for a Composite Worker. In the event that future construction/excavation leads to a potential Construction Worker exposure to groundwater, health and safety plans should be implemented to limit exposure risk.

The CPLF and COA are both subject to an ongoing groundwater monitoring program. Results from each sampling event for the CPLF and COA are reported to the MDE within routine monitoring reports. The most recent Coke Point and Greys Landfills Semi-Annual Groundwater Monitoring Report for Spring 2020 is dated September 11, 2020. The most recent Coke Oven Interim Measures 2019 Progress Report is dated January 31, 2020. Extensive groundwater sampling also occurred during the CPA CMS, as reported in the Coke Point Area Corrective Measures Study Investigation Report dated October 22, 2020. The complete findings from these separate investigations, which include the groundwater data obtained in the vicinity of Parcel B11, are provided in the referenced reports.

The COA to the north of the Site has several operational interim measures remediation cells. A portion of one of the COA remediation cells (Cell 5) extends onto Parcel B11. As documented within the Parcel B11 Work Plan Comment Response Letter dated June 25, 2020, the MDE has noted that depending on future development plans and the final grade of the Site, soil gas sampling may be required to evaluate potential VI risks/hazards.

6.3. RECOMMENDATIONS

Sufficient remedial investigation data has been collected to evaluate the nature and extent of possible constituents of concern in Parcel B11. The presence and absence of soil impacts within Parcel B11 have been adequately described and further investigation at the Site is not warranted to characterize overall conditions. Recommendations for the Site are as follows:

- The soil borings with elevated TPH/Oil & Grease concentrations and/or evidence of NAPL (B11-026-SB and B11-027-SB) should be considered for proximity to proposed utilities in any future development plans. If future utilities are proposed in the vicinity of these borings, appropriate protocols for the mitigation of potential product (NAPL) mobility should be specified in a project-specific Response and Development Work Plan.
- Measurable LNAPL has accumulated in the NAPL screening piezometer B11-026-PZ. Additional NAPL delineation activities are ongoing in this area, and the findings will be reported to the MDE in a separate NAPL Completion Report.
- The MDE has noted that depending on future development plans and the final grade of Parcel B11, soil gas sampling may be required to evaluate potential VI risks/hazards.

7.0 REFERENCES

ARM Group Inc. (2016). *Quality Assurance Project Plan – Sparrows Point Terminal Site*. Revision 3. April 5, 2016.

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ARM Group LLC (2020). *Coke Point Area Corrective Measures Study Investigation Report*. Revision 0. October 22, 2020.

ARM Group LLC (2020). *Phase II Investigation Work Plan – Area B: Parcel B11*. Revision 0. March 11, 2020.

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ARM Group LLC (2020). *Stormwater Pollution Prevention Plan (SWPPP)*. Revision 8. April 30, 2020.

Rust Environment and Infrastructure (1998). *Description of Current Conditions: Bethlehem Steel Corporation*. Final Draft. January 1998.

Tradepoint Atlantic (2020). *Coke Point and Greys Landfills Semi-Annual Groundwater Monitoring Report – Spring 2020*. September 11, 2020.

Weaver Boos Consultants (2014). *Phase I Environmental Site Assessment: Former RG Steel Facility*. Final Draft. May 19, 2014.

FIGURES

Site Boundary

Parcel Boundaries

Private Property

Parcel A9
Parcel A5
Parcel A13
Parcel A7
Parcel A14
Parcel A11
Parcel A8
Parcel A12
Parcel A2
Parcel A15
Parcel A17
Parcel A18
Parcel A16
Parcel A6
Parcel A4
Parcel A10
Parcel A3
Parcel A1
Parcel B6
Parcel B8
Parcel B14
Parcel B22
Parcel B16
Parcel B21
Parcel B15
Parcel B24
Parcel B23
Parcel B25
Parcel B7
Parcel B1
Parcel B2
Parcel B3
Parcel B17
Parcel B19
Parcel B4
Parcel B5
Parcel B9
Parcel B18
Parcel B10
Parcel B13
Parcel B20
Parcel B11
Parcel B12

Tradepoint Atlantic
Area A and Area B Parcels

September 22, 2020

Figure 1

ARM Group LLC
Engineers and Scientists

0 500 1,000 2,000 Feet

Tradepoint Atlantic
Sparrows Point
Baltimore County, MD

Area A: Project 200101
Area B: Project 200102

Site Boundary

Parcel Boundaries

1916 Shoreline:

Land

Marsh

Water

Parcel A9

Parcel A5

Parcel A13

Parcel A7

Parcel A14

Greys Creek

Bear Creek

Parcel A11

Parcel A8

Parcel A12

Parcel A2

Parcel A15

Parcel A17

Parcel A18

Parcel A16

Parcel A6

Parcel A3

Parcel A4

Parcel A10

Parcel A1

Parcel B6

Humphrey Creek

Parcel B8

Parcel B14

Parcel B21

Parcel B22

Parcel B16

Parcel B15

Parcel B24

Parcel B23

Parcel B25

Old Road Bay

Block House Cove

Parcel B7

Jones Creek

Parcel B1

Parcel B2

Parcel B3

Parcel B17

Parcel B19

Parcel B4

Parcel B5

Parcel B9

Parcel B18

Parcel B10

Parcel B13

Parcel B20

Parcel B11

Parcel B12

Patapsco River

Approximate Shoreline 1916

September 22, 2020

Adapted from Figure 2-20 of the Description of Current Conditions Report prepared by Rust Environmental and Infrastructure, dated January 1998

Figure 2

ARM Group LLC
Engineers and Scientists

0 500 1,000 2,000 Feet

Tradepoint Atlantic

Sparrows Point

Baltimore County, MD

Area A: Project 200101
Area B: Project 200102

Parcel B11 Soil Samples
Aerial View
December 17, 2020

Figure 3

ARM Group LLC
Engineers and Scientists

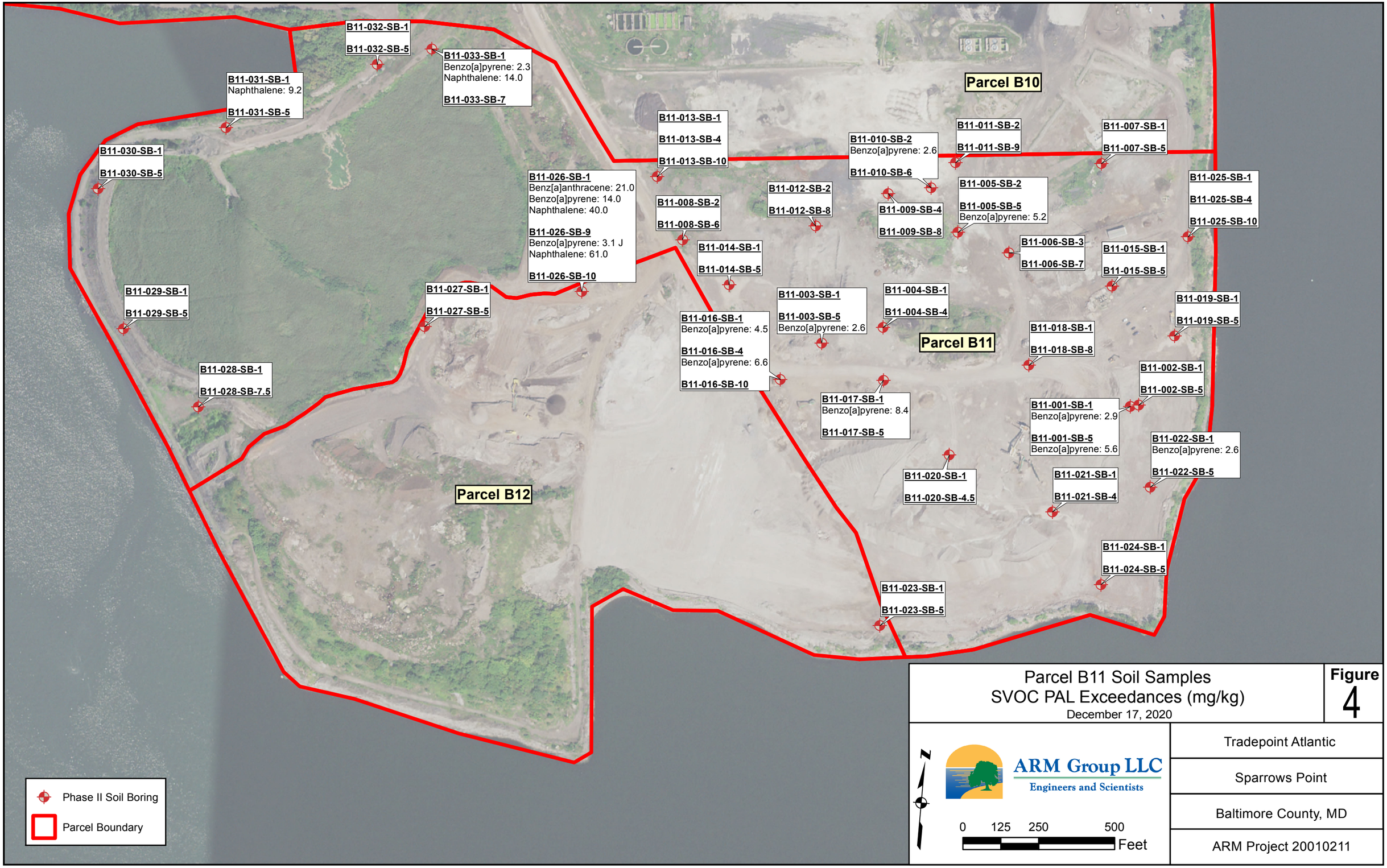
0 125 250 500 Feet

Tradepoint Atlantic

Sparrows Point

Baltimore County, MD

ARM Project 20010211



Parcel B11 Soil Samples
SVOC PAL Exceedances (mg/kg)
December 17, 2020

Figure 4

ARM Group LLC
Engineers and Scientists

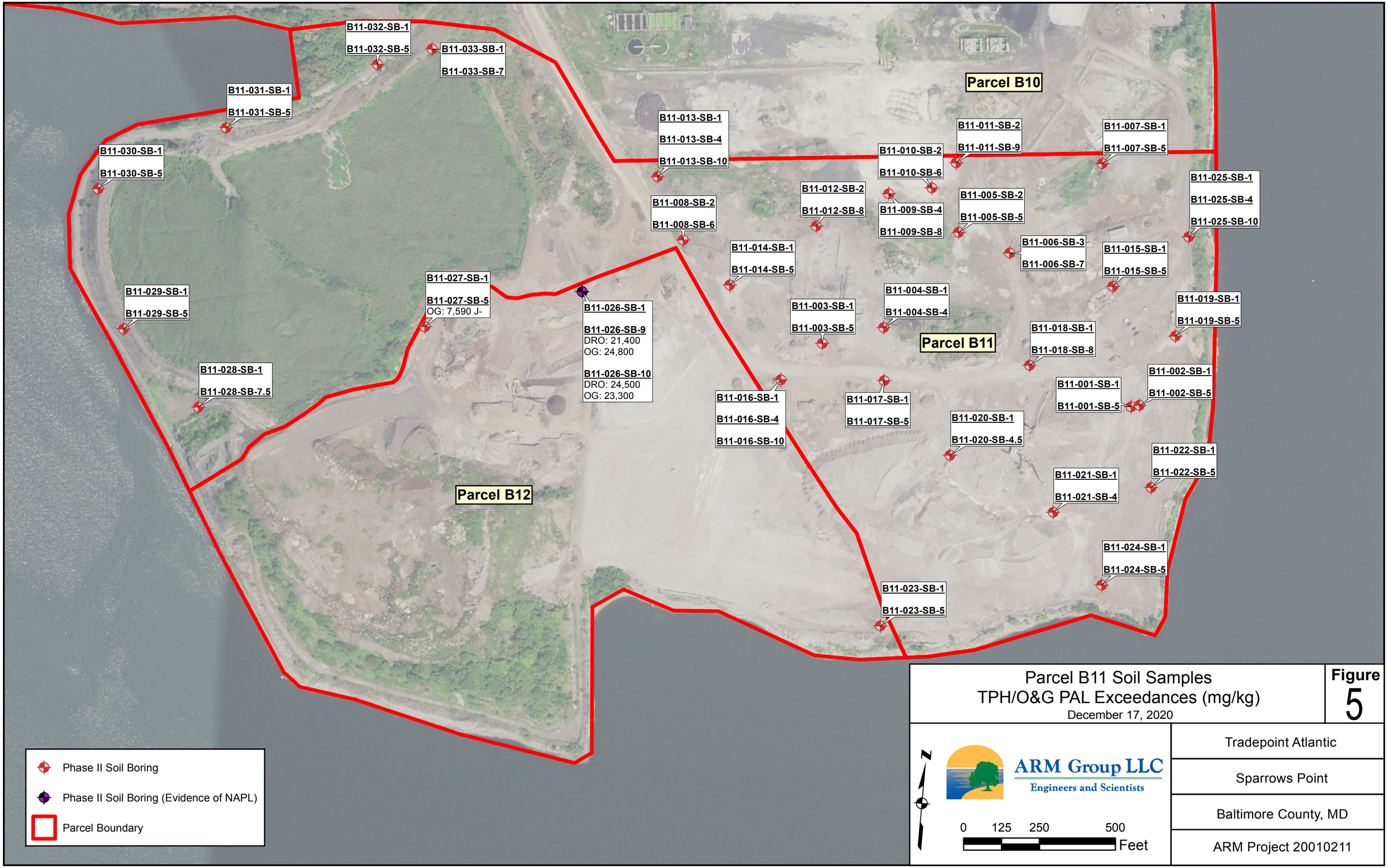
0 125 250 500 Feet

Tradepoint Atlantic

Sparrows Point

Baltimore County, MD

ARM Project 20010211



Parcel B11 Soil Samples
TPH/O&G PAL Exceedances (mg/kg)
December 17, 2020

Figure 5

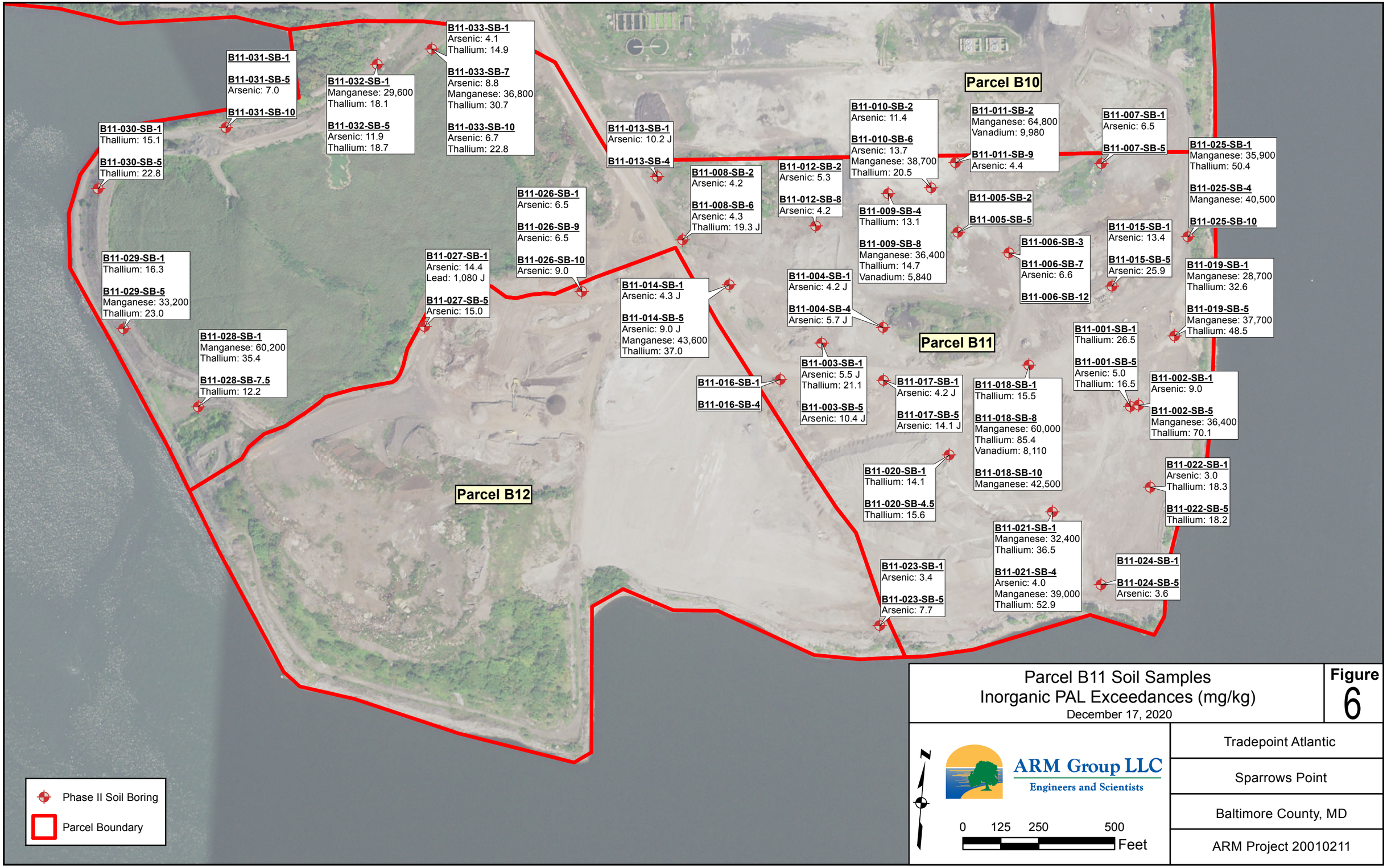
ARM Group LLC
Engineers and Scientists

Tradepoint Atlantic

Sparrows Point

Baltimore County, MD

ARM Project 20010211



Parcel B11 Soil Samples
Inorganic PAL Exceedances (mg/kg)
December 17, 2020

Figure 6

ARM Group LLC
Engineers and Scientists

Tradepoint Atlantic

Sparrows Point

Baltimore County, MD

ARM Project 20010211

TABLES

Table 1 - Parcel B11
Historical Site Drawing Details

Set Name	Typical Features Shown	Drawing Number	Original Date Drawn	Latest Revision Date
Plant Arrangement	Roads, water bodies, building/structure footprints, electric lines, above-ground pipelines (e.g.: steam, nitrogen, etc.)	5001	3/1/1961	1/8/1982
		5002	10/22/1958	1/8/1982
		5007	10/22/1958	1/8/1982
Plant Index	Roads, water bodies, demolished buildings/structures, electric lines, above-ground pipelines	5101	*Unknown*	3/6/2008
		5102	*Unknown*	3/7/2008
		5107	*Unknown*	8/18/2008
Plant Sewer Lines	Same as above plus trenches, sumps, underground piping (includes pipe materials)	5501	3/1/1961	3/9/1982
		5502	5/21/1975	2/24/1982
		5507	8/25/1959	2/24/1982
Drip Legs	Coke Oven Gas Drip Leg Locations	5885B	*Unknown*	Sept. 1988

Table 2 - Parcel B11
Field Shifted Boring Locations

Location ID	Sample Target	Proposed Location*		Final Location*		Relocation Distance (ft.) & Direction	
		Northing	Easting	Northing	Easting		
B11-003-SB	Scrap Reclaiming Pit	561,004	1,457,006	560,759	1,456,906	265	SW
B11-004-SB	Scrap Reclaiming Pit	561,006	1,457,208	560,827	1,457,103	208	SW
B11-008-SB	Scrap Screening Station	561,276	1,456,845	561,058	1,456,419	479	SW
B11-021-SB	Site-Wide / Material Stockpiles	560,274	1,457,726	560,270	1,457,713	14	W
B11-023-SB	Site-Wide / Material Stockpiles	559,860	1,457,347	559,846	1,457,178	169	W
B11-026-SB	Site-Wide / DMCF Perimeter	560,946	1,455,920	560,859	1,456,102	202	SE
B11-027-SB	Site-Wide / DMCF Perimeter	560,748	1,455,585	560,699	1,455,596	50	S
B11-031-SB	Site-Wide / DMCF Perimeter	561,215	1,454,887	561,295	1,454,886	81	N
B11-032-SB	Site-Wide / DMCF Perimeter	561,446	1,455,370	561,546	1,455,365	101	N
B11-033-SB	Site-Wide / DMCF Perimeter	561,657	1,455,582	561,613	1,455,539	61	SW

*Reported northings and eastings are not survey accurate. Coordinates are reported in NAD 1983 Maryland State Plane (US feet).
DMCF = Dredge Material Containment Facility

Table 3 - Parcel B11
Characterization Results for Solid IDW

Sample ID	Parameter	Result (mg/L)	TCLP Limit (mg/L)	TCLP Exceedance	Laboratory Flag	LOQ (mg/L)
B11/B17 IDW 10/8/20	1,1-Dichloroethene	0.023	0.7	no	U	0.023
	1,2-Dichloroethane	0.023	0.5	no	U	0.023
	1,4-Dichlorobenzene	0.023	7.5	no	U	0.023
	2,4,5-Trichlorophenol	0.1	400	no	U	0.1
	2,4,6-Trichlorophenol	0.1	2	no	U	0.1
	2,4-Dinitrotoluene	0.1	0.13	no	U	0.1
	2-Butanone (MEK)	0.046	200	no	U	0.046
	2-Methylphenol	0.1	200	no	U	0.1
	3&4-Methylphenol(m&p Cresol)	0.2	200	no	U	0.2
	Arsenic	0.5	5	no	U	0.5
	Barium	10	100	no	U	10
	Benzene	0.023	0.5	no	U	0.023
	Cadmium	0.1	1	no	U	0.1
	Carbon tetrachloride	0.023	0.5	no	U	0.023
	Chlorobenzene	0.023	100	no	U	0.023
	Chloroform	0.023	6	no	U	0.023
	Chromium	0.5	5	no	U	0.5
	Hexachlorobenzene	0.1	0.13	no	U	0.1
	Hexachloroethane	0.1	3	no	U	0.1
	Lead	0.5	5	no	U	0.5
	Mercury	0.02	0.2	no	U	0.02
	Nitrobenzene	0.1	2	no	U	0.1
	Pentachlorophenol	0.5	100	no	U	0.5
	Selenium	0.1	1	no	U	0.1
	Silver	0.5	5	no	U	0.5
	Tetrachloroethene	0.023	0.7	no	U	0.023
	Trichloroethene	0.023	0.5	no	U	0.023
	Vinyl chloride	0.023	0.2	no	U	0.023

Table 3 - Parcel B11
Characterization Results for Solid IDW

Sample ID	Parameter	Result (mg/L)	TCLP Limit (mg/L)	TCLP Exceedance	Laboratory Flag	LOQ (mg/L)
B11 IDW 11/20/20	1,1-Dichloroethene	0.016	0.7	no	U	0.016
	1,2-Dichloroethane	0.016	0.5	no	U	0.016
	1,4-Dichlorobenzene	0.016	7.5	no	U	0.016
	2,4,5-Trichlorophenol	0.1	400	no	U	0.1
	2,4,6-Trichlorophenol	0.1	2	no	U	0.1
	2,4-Dinitrotoluene	0.1	0.13	no	U	0.1
	2-Butanone (MEK)	0.031	200	no	U	0.031
	2-Methylphenol	0.1	200	no	U	0.1
	3&4-Methylphenol(m&p Cresol)	0.2	200	no	U	0.2
	Arsenic	0.5	5	no	U	0.5
	Barium	10	100	no	U	10
	Benzene	0.016	0.5	no	U	0.016
	Cadmium	0.1	1	no	U	0.1
	Carbon tetrachloride	0.016	0.5	no	U	0.016
	Chlorobenzene	0.016	100	no	U	0.016
	Chloroform	0.016	6	no	U	0.016
	Chromium	0.5	5	no	U	0.5
	Hexachlorobenzene	0.1	0.13	no	U	0.1
	Hexachloroethane	0.1	3	no	U	0.1
	Lead	0.5	5	no	U	0.5
	Mercury	0.02	0.2	no	U	0.02
	Nitrobenzene	0.1	2	no	U	0.1
	Pentachlorophenol	0.5	100	no	U	0.5
	Selenium	0.1	1	no	U	0.1
	Silver	0.5	5	no	U	0.5
	Tetrachloroethene	0.016	0.7	no	U	0.016
	Trichloroethene	0.016	0.5	no	U	0.016
	Vinyl chloride	0.016	0.2	no	U	0.016

U: The analyte was not detected in the sample. This numeric value represents the sample LOQ.
TCLP: Toxicity Characteristic Leaching Procedure
LOQ: Limit of Quantitation

Table 4 - Parcel B11
Characterization Results for Liquid IDW

Sample ID	Parameter	Result (mg/L)	TCLP Limit (mg/L)	TCLP Exceedance	Laboratory Flag	LOQ (mg/L)
Liquid IDW 10/8/20	1,1-Dichloroethene	0.005	0.7	no	U	0.005
	1,2-Dichloroethane	0.005	0.5	no	U	0.005
	1,4-Dichlorobenzene	0.005	7.5	no	U	0.005
	2,4,5-Trichlorophenol	0.001	400	no	U	0.001
	2,4,6-Trichlorophenol	0.001	2	no	U	0.001
	2,4-Dinitrotoluene	0.001	0.13	no	U	0.001
	2-Butanone (MEK)	0.025	200	no	U	0.025
	2-Methylphenol	0.001	200	no	U	0.001
	4-Methylphenol(p Cresol)	0.001	200	no	U	0.001
	Arsenic	0.005	5	no	U	0.005
	Benzene	0.001	0.5	no	U	0.001
	Cadmium	0.038	1	no		0.005
	Carbon tetrachloride	0.005	0.5	no	U	0.005
	Chlorobenzene	0.005	100	no	U	0.005
	Chloroform	0.005	6	no	U	0.005
	Chromium	0.005	5	no	U	0.005
	Hexachlorobenzene	0.001	0.13	no	U	0.001
	Hexachloroethane	0.001	3	no	U	0.001
	Lead	0.005	5	no	U	0.005
	Mercury	0.001	0.2	no	U	0.001
	Nitrobenzene	0.001	2	no	U	0.001
	Pentachlorophenol	0.005	100	no	U	0.005
	Selenium	0.005	1	no	U	0.005
	Silver	0.005	5	no	U	0.005
	Tetrachloroethene	0.005	0.7	no	U	0.005
	Trichloroethene	0.005	0.5	no	U	0.005
	Vinyl chloride	0.001	0.2	no	U	0.001

Table 4 - Parcel B11
Characterization Results for Liquid IDW

Sample ID	Parameter	Result (mg/L)	TCLP Limit (mg/L)	TCLP Exceedance	Laboratory Flag	LOQ (mg/L)
Liquid IDW 11/20/20	1,1-Dichloroethene	0.005	0.7	no	U	0.005
	1,2-Dichloroethane	0.005	0.5	no	U	0.005
	1,4-Dichlorobenzene	0.005	7.5	no	U	0.005
	2,4,5-Trichlorophenol	0.001	400	no	U	0.001
	2,4,6-Trichlorophenol	0.001	2	no	U	0.001
	2,4-Dinitrotoluene	0.001	0.13	no	U	0.001
	2-Butanone (MEK)	0.025	200	no	U	0.025
	2-Methylphenol	0.001	200	no	U	0.001
	4-Methylphenol(p Cresol)	0.001	200	no	U	0.001
	Arsenic	0.005	5	no	U	0.005
	Benzene	0.001	0.5	no	U	0.001
	Cadmium	0.022	1	no		0.005
	Carbon tetrachloride	0.005	0.5	no	U	0.005
	Chlorobenzene	0.005	100	no	U	0.005
	Chloroform	0.005	6	no	U	0.005
	Chromium	0.018	5	no		0.005
	Hexachlorobenzene	0.001	0.13	no	U	0.001
	Hexachloroethane	0.001	3	no	U	0.001
	Lead	0.015	5	no		0.005
	Mercury	0.001	0.2	no	U	0.001
	Nitrobenzene	0.001	2	no	U	0.001
	Pentachlorophenol	0.005	100	no	U	0.005
	Selenium	0.005	1	no	U	0.005
	Silver	0.005	5	no	U	0.005
	Tetrachloroethene	0.005	0.7	no	U	0.005
	Trichloroethene	0.005	0.5	no	U	0.005
	Vinyl chloride	0.001	0.2	no	U	0.001

U: The analyte was not detected in the sample. The numeric value represents the sample LOQ.
TCLP: Toxicity Characteristic Leaching Procedure
LOQ: Limit of Quantitation

Table 5 - Parcel B11
Summary of Organics Detected in Soil

Parameter	Units	PAL	B11-001-SB-1* 8/13/2020	B11-001-SB-5* 8/13/2020	B11-002-SB-1* 8/13/2020	B11-002-SB-5* 8/13/2020	B11-003-SB-1 8/11/2020	B11-003-SB-5 8/11/2020	B11-004-SB-1 8/11/2020	B11-004-SB-4 8/11/2020	B11-005-SB-2* 8/13/2020	B11-005-SB-5* 10/7/2020	B11-006-SB-3 8/17/2020	B11-006-SB-7 8/17/2020	B11-007-SB-1 8/18/2020	B11-007-SB-5 8/18/2020
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	36,000	N/A	N/A	N/A	N/A	N/A	N/A	0.0043 U	0.0046 U	N/A	0.0044 U	N/A	0.005 U	N/A	N/A
1,1-Dichloroethane	mg/kg	16	N/A	N/A	N/A	N/A	N/A	N/A	0.0043 U	0.0046 U	N/A	0.0044 U	N/A	0.005 U	N/A	N/A
2-Butanone (MEK)	mg/kg	190,000	N/A	N/A	N/A	N/A	N/A	N/A	0.0086 UJ	0.0092 UJ	N/A	0.0088 U	N/A	0.01 U	N/A	N/A
Acetone	mg/kg	670,000	N/A	N/A	N/A	N/A	N/A	N/A	0.0086 U	0.0092 U	N/A	**0.01**	N/A	0.021 B	N/A	N/A
Benzene	mg/kg	5.1	N/A	N/A	N/A	N/A	N/A	N/A	0.0043 U	0.0046 U	N/A	0.0044 U	N/A	0.005 U	N/A	N/A
Carbon disulfide	mg/kg	3,500	N/A	N/A	N/A	N/A	N/A	N/A	0.0043 U	0.0046 U	N/A	**0.0019 J**	N/A	0.005 UJ	N/A	N/A
Cyclohexane	mg/kg	27,000	N/A	N/A	N/A	N/A	N/A	N/A	0.0086 U	0.0092 U	N/A	0.0088 U	N/A	0.01 UJ	N/A	N/A
Ethylbenzene	mg/kg	25	N/A	N/A	N/A	N/A	N/A	N/A	0.0043 U	0.0046 U	N/A	0.0044 U	N/A	0.005 U	N/A	N/A
Isopropylbenzene	mg/kg	9,900	N/A	N/A	N/A	N/A	N/A	N/A	0.0043 U	0.0046 U	N/A	0.0044 U	N/A	0.005 U	N/A	N/A
Methyl Acetate	mg/kg	1,200,000	N/A	N/A	N/A	N/A	N/A	N/A	0.043 U	0.046 U	N/A	0.044 U	N/A	**0.0033 J**	N/A	N/A
Toluene	mg/kg	47,000	N/A	N/A	N/A	N/A	N/A	N/A	0.0043 U	0.0046 U	N/A	0.0044 U	N/A	0.005 U	N/A	N/A
Xylenes	mg/kg	2,800	N/A	N/A	N/A	N/A	N/A	N/A	0.013 U	0.014 U	N/A	0.013 U	N/A	0.015 U	N/A	N/A
Semi-Volatile Organic Compounds^																
1,1-Biphenyl	mg/kg	200	**0.24 J**	**0.23 J**	**0.17 J**	0.072 U	0.72 U	**0.2 J**	**0.078**	0.74 U	**0.028 J**	**0.022 J**	**0.038 J**	**0.04 J**	**0.04 J**	0.074 U
1,2,4,5-Tetrachlorobenzene	mg/kg	350	0.74 U	0.74 U	0.36 U	0.072 U	0.72 U	0.75 U	0.073 U	0.74 U	0.071 U	0.073 U	0.073 U	**0.042 J**	0.075 U	0.074 U
2,4-Dimethylphenol	mg/kg	16,000	0.74 U	0.74 U	0.36 U	0.072 U	0.72 U	0.75 U	0.073 R	0.74 U	0.071 U	0.073 U	0.073 UJ	0.074 R	0.075 UJ	0.074 R
2,4-Dinitrotoluene	mg/kg	7.4	0.74 U	0.74 U	0.36 U	0.072 U	0.72 U	0.75 U	0.073 U	0.74 U	0.071 U	0.073 U	0.073 U	0.074 U	0.075 U	0.074 U
2-Chloronaphthalene	mg/kg	60,000	0.74 U	0.74 U	0.36 U	0.072 U	0.72 U	0.75 U	0.073 U	0.74 U	0.071 U	0.073 U	0.073 U	0.074 U	0.075 U	0.074 U
2-Chlorophenol	mg/kg	5,800	0.74 U	0.74 U	0.36 U	0.072 U	0.72 U	0.75 U	0.073 R	0.74 U	0.071 U	0.073 U	0.073 UJ	0.074 R	0.075 UJ	0.074 R
2-Methylnaphthalene	mg/kg	3,000	**1.9**	**2.1**	**0.32**	**0.023**	**0.036**	**0.12**	**0.059**	**0.02**	**0.43**	**0.092**	**0.4**	**0.068**	**0.57**	**0.028**
2-Methylphenol	mg/kg	41,000	0.74 U	0.74 U	0.36 U	0.072 U	0.72 U	0.75 U	0.073 R	0.74 U	0.071 U	0.073 U	0.073 UJ	0.074 R	0.075 UJ	0.074 R
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	1.5 U	1.5 U	0.72 U	0.14 U	1.4 U	1.5 U	0.15 R	1.5 U	0.14 U	0.15 U	0.15 UJ	0.15 R	0.15 UJ	0.15 R
Acenaphthene	mg/kg	45,000	**0.13**	**0.15**	**0.041**	0.0085 U	**0.019**	**0.039**	**0.014**	**0.0018 J**	**0.0032 J**	**0.078**	**0.16**	**0.031**	**0.04**	**0.0081**
Acenaphthylene	mg/kg	45,000	**0.56**	**1.6**	**0.16**	**0.0043 J**	**0.023**	**0.12**	**0.094**	**0.019**	**0.017**	**1.5**	**0.24**	**0.022**	**0.052**	**0.034**
Acetophenone	mg/kg	120,000	0.74 U	0.74 U	0.36 U	0.072 U	0.72 U	0.75 U	**0.034 J**	0.74 U	**0.018 J**	0.073 U	**0.031 J**	0.074 U	**0.021 J**	0.074 U
Anthracene	mg/kg	230,000	**0.68**	**1.7**	**0.27**	**0.004 J**	**0.034**	**0.16**	**0.49**	**0.02**	**0.021**	**1.2**	**0.78**	**0.051**	**0.12**	**0.048**
Benz[a]anthracene	mg/kg	21	**2.5**	**5.7**	**0.76**	**0.049**	**0.36**	**1.6**	**0.71**	**0.15**	**0.072**	**3.1**	**0.22**	**0.21**	**0.78**	**0.23**
Benzaldehyde	mg/kg	120,000	0.74 U	0.74 U	0.36 U	**0.021 J**	0.72 U	0.75 U	**0.028 J**	0.74 U	**0.019 J**	0.073 U	**0.025 J**	**0.024 J**	**0.023 J**	**0.029 J**
Benzo[a]pyrene	mg/kg	2.1	**2.9**	**5.6**	**0.71**	**0.015**	**0.61**	**2.6**	**0.52**	**0.11**	**0.05**	**5.2**	**0.11**	**0.22**	**0.88**	**0.23**
Benzo[b]fluoranthene	mg/kg	21	**3.5**	**6.7**	**1.1**	**0.03**	**0.7**	**2.8**	**0.75**	**0.15**	**0.058**	**5.6**	**0.16**	**0.22**	**0.74**	**0.24**
Benzo[g,h,i]perylene	mg/kg		**2**	**3.7**	**0.48**	**0.014**	**0.43**	**1.7**	**0.32**	**0.064**	**0.029**	**4.8**	**0.058 J**	**0.16**	**0.37**	**0.14**
Benzo[k]fluoranthene	mg/kg	210	**1.3**	**2.6**	**0.37**	**0.0094**	**0.21**	**0.62**	**0.24**	**0.049**	**0.027**	**2.1**	**0.066 J**	**0.078**	**0.2**	**0.078**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.74 U	0.74 U	0.36 U	0.072 U	0.72 U	0.75 U	0.024 B	0.74 UJ	**0.039 J**	**0.03 J**	0.049 B	0.074 U	**0.036 J**	0.021 B
Caprolactam	mg/kg	400,000	1.9 U	1.9 U	0.9 U	0.18 U	1.8 U	1.9 U	0.18 U	1.9 U	0.18 U	0.18 U	0.18 U	0.18 U	**0.047 J**	0.19 U
Carbazole	mg/kg		**0.32 J**	**0.36 J**	**0.12 J**	0.072 U	0.72 U	**0.26 J**	**0.11**	0.74 U	0.071 U	**0.094**	**0.019 J**	0.074 U	**0.038 J**	0.074 U
Chrysene	mg/kg	2,100	**2.6**	**5.1**	**0.84**	**0.04**	**0.33**	**1.7**	**0.53**	**0.099**	**0.055**	**3.1**	**0.23**	**0.18**	**0.71**	**0.18**
Dibenz[a,h]anthracene	mg/kg	2.1	**0.62**	**0.92**	**0.12**	**0.0032 J**	**0.093**	**0.27**	**0.086**	**0.018**	**0.0066 J**	**0.83**	**0.015 J**	**0.036**	**0.13**	**0.034**
Di-n-butylphthalate	mg/kg	82,000	0.74 U	**0.21 J**	0.36 U	0.072 U	0.72 U	0.75 U	0.073 U	0.2 B	**0.076**	**0.021 J**	0.073 U	0.074 U	0.075 U	0.074 U
Fluoranthene	mg/kg	30,000	**4**	**12**	**1.9**	**0.028**	**0.24**	**1.6**	**0.94**	**0.15**	**0.072**	**7.1**	**1.9**	**0.29**	**0.56**	**0.3**
Fluorene	mg/kg	30,000	**0.19**	**0.56**	**0.054**	0.0085 U	**0.0079**	**0.038**	**0.068**	**0.0024 J**	**0.011**	**0.4**	**0.23**	**0.0099**	**0.027**	**0.0088**
Hexachloroethane	mg/kg	8	0.74 U	0.74 U	0.36 U	0.072 U	0.72 U	0.75 U	0.073 U	0.74 U	0.071 U	0.073 U	0.073 U	0.074 U	0.075 U	0.074 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	**2**	**3.9**	**0.44**	**0.011**	**0.36**	**1.7**	**0.3**	**0.058**	**0.023**	**5.7**	**0.061 J**	**0.1**	**0.31**	**0.11**
Naphthalene	mg/kg	8.6	**2.5**	**3.5**	**1.7**	**0.024**	**0.084**	**0.43**	**0.15**	**0.018**	**0.44**	**0.21**	**0.6**	**0.16**	**0.42**	**0.056**
Nitrobenzene	mg/kg	22	0.74 U	0.74 U	0.36 U	0.072 U	0.72 U	0.75 U	0.073 U	0.74 U	0.071 U	0.073 U	0.073 U	0.074 U	0.075 U	0.074 U
N-Nitrosodiphenylamine	mg/kg	470	0.74 U	0.74 U	0.36 U	0.072 U	0.72 U	0.75 U	0.073 U	0.74 U	0.071 U	0.073 U	0.073 U	0.074 U	0.075 U	0.074 U
Phenanthrene	mg/kg		**2.9**	**7.7**	**1.5**	**0.016**	**0.093**	**0.51**	**0.3**	**0.045**	**0.15**	**3.4**	**2.8**	**0.2**	**0.53**	**0.15**
Phenol	mg/kg	250,000	0.74 U	0.74 U	0.36 U	0.072 U	0.72 U	0.75 U	0.073 R	0.74 U	0.071 U	0.073 U	0.073 UJ	0.074 R	0.075 UJ	0.074 R
Pyrene	mg/kg	23,000	**3.6**	**10**	**1.5**	**0.026**	**0.26**	**1.8**	**0.79**	**0.14**	**0.062**	**6.8**	**1.5**	**0.25**	**0.98**	**0.28**
PCBs																
Aroclor 1248	mg/kg	0.94	0.092 U	N/A	0.018 U	N/A	0.089 UJ	N/A	0.018 UJ	N/A	**0.017 J**	N/A	0.018 U	N/A	**0.057 J**	N/A
Aroclor 1254	mg/kg	0.97	0.092 U	N/A	0.018 U	N/A	0.089 U	N/A	0.018 U	N/A	0.018 U	N/A	0.018 U	N/A	0.095 U	N/A
Aroclor 1260	mg/kg	0.99	0.092 U	N/A	0.018 U	N/A	0.089 U	N/A	0.018 U	N/A	0.018 U	N/A	0.018 U	N/A	0.095 U	N/A
PCBs (total)	mg/kg	0.97	0.83 U	N/A	0.16 U	N/A	0.8 U	N/A	0.16 U	N/A	0.16 U	N/A	0.17 U	N/A	0.85 U	N/A
TPH/Oil & Grease																
Diesel Range Organics	mg/kg	6,200	**367**	**323**	**220**	**42.8**	**93.8**	**205**	**125**	**93.9**	**52**	**182**	**50**	**80.9**	**99.4**	**135**
Gasoline Range Organics	mg/kg	6,200	11.8 U	**7.7 J**	9.3 U	11.1 U	10.7 U	10.3 U	11.1 U	10.7 U	10.1 U	9.2 U	11 U	9.7 U	11.2 U	12.5 U
Oil & Grease	mg/kg	6,200	**708**	**317**	**1,510**	215 U	**418**	**278**	**523**	**1,370**	214 U	**365**	**122 J-**	**517 J-**	**257 J-**	**246 J-**

Bold indicates detection
Values in red indicate a detection exceedance of the Project Action Limit (PAL)

* Indicates non-validated data

^ PAH compounds were analyzed via SIM

N/A: This parameter was not analyzed for this sample.

J: The positive result reported for this analyte is a quantitative estimate.

J-: The positive result reported for this analyte is a quantitative estimate but may be biased low.

R: The result for this analyte is unreliable. Additional data is needed ot confirm or disprove the presence of this compound/analyte in the sample.

B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.

UJ: This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

Table 5 - Parcel B11
Summary of Organics Detected in Soil

Parameter	Units	PAL	B11-008-SB-2 8/17/2020	B11-008-SB-6 8/17/2020	B11-009-SB-4* 10/7/2020	B11-009-SB-8* 10/7/2020	B11-010-SB-2* 10/7/2020	B11-010-SB-6* 10/7/2020	B11-011-SB-2* 10/6/2020	B11-011-SB-9* 10/6/2020	B11-012-SB-2* 10/7/2020	B11-012-SB-8* 10/7/2020	B11-013-SB-1 8/11/2020	B11-013-SB-4* 10/5/2020	B11-013-SB-10* 10/5/2020	B11-014-SB-1 8/11/2020
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	36,000	N/A	N/A	0.0043 U	0.0048 U	0.0044 U	0.0062 U	0.0036 U	0.0034 U	0.0047 U	0.0043 U	N/A	0.0041 U	0.0043 U	N/A
1,1-Dichloroethane	mg/kg	16	N/A	N/A	0.0043 U	0.0048 U	0.0044 U	0.0062 U	0.0036 U	0.0034 U	0.0047 U	0.0043 U	N/A	0.0041 U	0.0043 U	N/A
2-Butanone (MEK)	mg/kg	190,000	N/A	N/A	0.0086 U	0.0097 U	0.0089 U	0.012 U	0.0072 U	0.0068 U	0.0094 U	0.0087 U	N/A	0.0081 U	0.0086 U	N/A
Acetone	mg/kg	670,000	N/A	N/A	**0.0075 J**	**0.011**	**0.015**	**0.014**	**0.0082**	**0.0099**	**0.013**	**0.0062 J**	N/A	**0.0091**	**0.018**	N/A
Benzene	mg/kg	5.1	N/A	N/A	0.0043 U	0.0048 U	0.0044 U	0.0062 U	0.0036 U	0.0034 U	0.0047 U	0.0043 U	N/A	0.0041 U	0.0043 U	N/A
Carbon disulfide	mg/kg	3,500	N/A	N/A	**0.0015 J**	**0.0022 J**	0.0044 U	**0.003 J**	**0.0018 J**	**0.002 J**	**0.0016 J**	0.0043 U	N/A	**0.0016 J**	0.0043 U	N/A
Cyclohexane	mg/kg	27,000	N/A	N/A	0.0086 U	0.0097 U	**0.0017 J**	0.012 U	0.0072 U	0.0068 U	**0.0026 J**	0.0087 U	N/A	0.0081 U	0.0086 U	N/A
Ethylbenzene	mg/kg	25	N/A	N/A	0.0043 U	0.0048 U	0.0044 U	0.0062 U	0.0036 U	0.0034 U	0.0047 U	0.0043 U	N/A	0.0041 U	0.0043 U	N/A
Isopropylbenzene	mg/kg	9,900	N/A	N/A	0.0043 U	0.0048 U	0.0044 U	0.0062 U	0.0036 U	0.0034 U	0.0047 U	0.0043 U	N/A	0.0041 U	0.0043 U	N/A
Methyl Acetate	mg/kg	1,200,000	N/A	N/A	0.043 U	0.048 U	0.044 U	0.062 U	0.036 U	0.034 U	0.047 U	0.043 U	N/A	0.041 U	0.043 U	N/A
Toluene	mg/kg	47,000	N/A	N/A	0.0043 U	0.0048 U	0.0044 U	0.0062 U	0.0036 U	0.0034 U	**0.0011 J**	0.0043 U	N/A	0.0041 U	0.0043 U	N/A
Xylenes	mg/kg	2,800	N/A	N/A	0.013 U	0.015 U	0.013 U	0.019 U	0.011 U	0.01 U	0.014 U	0.013 U	N/A	0.012 U	0.013 U	N/A
Semi-Volatile Organic Compounds^																
1,1-Biphenyl	mg/kg	200	0.7 U	0.68 U	0.072 U	0.07 U	0.72 U	**0.027 J**	0.069 U	**0.035 J**	**0.13**	0.74 U	**0.032 J**	0.071 U	**0.089**	0.74 U
1,2,4,5-Tetrachlorobenzene	mg/kg	350	0.7 U	0.68 U	0.072 U	0.07 U	0.72 U	0.096 U	0.069 U	0.068 U	0.07 U	0.74 U	0.074 U	0.071 U	0.068 U	0.74 U
2,4-Dimethylphenol	mg/kg	16,000	0.7 U	0.68 U	0.072 U	0.07 U	0.72 U	0.096 U	0.069 U	0.068 U	**0.025 J**	0.74 U	0.074 UJ	0.071 U	0.068 U	0.74 U
2,4-Dinitrotoluene	mg/kg	7.4	0.7 U	0.68 U	0.072 U	0.07 U	0.72 U	0.096 U	0.069 U	0.068 U	**0.061 J**	0.74 U	0.074 U	0.071 U	**0.02 J**	0.74 U
2-Chloronaphthalene	mg/kg	60,000	0.7 U	0.68 U	0.072 U	0.07 U	0.72 U	0.096 U	0.069 U	0.068 U	0.07 U	0.74 U	0.074 U	0.071 U	0.068 U	0.74 U
2-Chlorophenol	mg/kg	5,800	0.7 U	0.68 U	0.072 U	0.07 U	0.72 U	0.096 U	0.069 U	0.068 U	0.07 U	0.74 U	0.074 UJ	0.071 U	0.068 U	0.74 U
2-Methylnaphthalene	mg/kg	3,000	**0.09**	**0.11**	**0.035**	**0.064**	**0.95**	**0.065**	**0.019**	**0.019**	**0.86**	**0.12**	**0.044**	**0.0071 J**	**0.26**	**0.055**
2-Methylphenol	mg/kg	41,000	0.7 U	0.68 U	0.072 U	0.07 U	0.72 U	0.096 U	0.069 U	0.068 U	0.07 U	0.74 U	0.074 UJ	0.071 U	0.068 U	0.74 U
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	1.4 U	1.4 U	0.14 U	0.14 U	1.4 U	0.19 U	0.14 U	0.14 U	0.14 U	1.5 U	0.15 UJ	0.14 U	0.14 U	1.5 U
Acenaphthene	mg/kg	45,000	**0.049**	**0.0066 J**	**0.0052 J**	**0.015**	**0.078**	**0.083**	**0.0063 J**	**0.0037 J**	**0.01 J**	**0.011**	**0.0043 J**	0.021 U	0.007 U	**0.029**
Acenaphthylene	mg/kg	45,000	**0.035 J**	**0.037**	**0.0065 J**	**0.014**	**0.93**	**0.072**	**0.0054 J**	**0.0098**	**0.032 J**	**0.024**	**0.082**	0.021 U	**0.045**	**0.15**
Acetophenone	mg/kg	120,000	0.7 U	0.68 U	0.072 U	0.07 U	0.72 U	0.096 U	0.069 U	0.068 U	**0.1**	0.74 U	0.074 U	0.071 U	**0.029 J**	0.74 U
Anthracene	mg/kg	230,000	**0.046**	**0.039**	**0.027**	**0.11**	**1.5**	**0.59**	**0.011**	**0.0089**	**0.092**	**0.034**	**0.072**	**0.0075 J**	**0.1**	**0.23**
Benz[a]anthracene	mg/kg	21	**0.78**	**0.21**	**0.081**	**0.4**	**2.6**	**1.6**	**0.03**	**0.02**	**0.1**	**0.14**	**0.43**	**0.035**	**0.34**	**0.78**
Benzaldehyde	mg/kg	120,000	0.7 U	0.68 U	0.072 U	0.07 U	0.72 U	0.096 U	0.069 U	**0.015 J**	**0.072**	0.74 U	**0.024 J**	0.071 U	**0.025 J**	0.74 U
Benzo[a]pyrene	mg/kg	2.1	**1.6**	**0.16**	**0.053**	**0.38**	**2.6**	**1.4**	**0.034**	**0.024**	**0.086**	**0.19**	**0.27**	**0.026**	**0.22**	**0.66**
Benzo[b]fluoranthene	mg/kg	21	**1.8**	**0.27**	**0.11**	**0.5**	**3.3**	**1.8**	**0.043**	**0.033**	**0.12**	**0.25**	**0.36**	**0.06**	**0.45**	**0.83**
Benzo[g,h,i]perylene	mg/kg		**0.92**	**0.13**	**0.043**	**0.25**	**1.8**	**0.81**	**0.023**	**0.019**	**0.059**	**0.12**	**0.17**	**0.032**	**0.27**	**0.42**
Benzo[k]fluoranthene	mg/kg	210	**0.48**	**0.078**	**0.044**	**0.19**	**1.2**	**0.68**	**0.017**	**0.011**	**0.052**	**0.095**	**0.11**	**0.024**	**0.13**	**0.27**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.7 U	0.68 U	0.072 U	**0.02 J**	0.72 U	**0.035 J**	**0.017 J**	**0.024 J**	**0.026 J**	0.74 U	0.022 B	0.071 U	**0.047 J**	0.74 U
Caprolactam	mg/kg	400,000	1.7 U	1.7 U	0.18 U	**0.021 J**	1.8 U	**0.053 J**	0.17 U	0.17 U	**0.2**	1.9 U	0.19 U	0.18 U	**0.043 J**	1.9 U
Carbazole	mg/kg		0.7 U	0.68 U	**0.045 J**	**0.036 J**	**0.18 J**	**0.13**	0.069 U	0.068 U	**0.069 J**	0.74 U	0.074 U	0.071 U	**0.049 J**	0.74 U
Chrysene	mg/kg	2,100	**0.87**	**0.19**	**0.11**	**0.41**	**2.5**	**1.6**	**0.035**	**0.024**	**0.14**	**0.17**	**0.25**	**0.051**	**0.34**	**0.6**
Dibenz[a,h]anthracene	mg/kg	2.1	**0.2**	**0.034**	**0.012**	**0.065**	**0.44**	**0.24**	**0.0052 J**	**0.004 J**	**0.015 J**	**0.028**	**0.042**	**0.0085 J**	**0.061**	**0.094**
Di-n-butylphthalate	mg/kg	82,000	0.7 U	0.68 U	0.072 U	**0.018 J**	0.72 U	**0.032 J**	0.069 U	**0.028 J**	**0.024 J**	0.74 U	0.074 U	0.071 U	0.068 U	0.74 U
Fluoranthene	mg/kg	30,000	**0.67**	**0.23**	**0.23**	**0.89**	**5.7**	**3.7**	**0.067**	**0.038**	**0.3**	**0.19**	**0.53**	**0.1**	**0.4**	**1.7**
Fluorene	mg/kg	30,000	**0.012 J**	**0.0074**	**0.0037 J**	**0.019**	**0.2**	**0.08**	**0.0046 J**	**0.0042 J**	0.037 U	**0.012**	**0.0079**	0.021 U	**0.014**	**0.064**
Hexachloroethane	mg/kg	8	0.7 U	0.68 U	0.072 U	0.07 U	0.72 U	0.096 U	0.069 U	0.068 U	**0.058 J**	0.74 U	0.074 U	0.071 U	0.068 U	0.74 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	**0.96**	**0.11**	**0.05**	**0.33**	**2.2**	**1.2**	**0.025**	**0.02**	**0.072**	**0.14**	**0.16**	**0.04**	**0.3**	**0.36**
Naphthalene	mg/kg	8.6	**0.15**	**0.16**	**0.05**	**0.075**	**1.4**	**0.18**	**0.051**	**0.1**	**1.5**	**0.17**	**0.12**	**0.036**	**0.36**	**0.26**
Nitrobenzene	mg/kg	22	0.7 U	0.68 U	0.072 U	0.07 U	0.72 U	0.096 U	0.069 U	0.068 U	0.07 U	0.74 U	0.074 U	0.071 U	0.068 U	0.74 U
N-Nitrosodiphenylamine	mg/kg	470	0.7 U	0.68 U	0.072 U	0.07 U	0.72 U	0.096 U	0.069 U	0.068 U	**0.1**	0.74 U	0.074 U	0.071 U	**0.018 J**	0.74 U
Phenanthrene	mg/kg		**0.17**	**0.19**	**0.11**	**0.4**	**3.8**	**1.8**	**0.057**	**0.035**	**0.44**	**0.15**	**0.21**	**0.044**	**0.55**	**0.84**
Phenol	mg/kg	250,000	0.7 U	0.68 U	0.072 U	0.07 U	0.72 U	0.096 U	0.069 U	**0.039 J**	0.07 U	0.74 U	0.074 UJ	0.071 U	0.068 U	0.74 U
Pyrene	mg/kg	23,000	**0.77**	**0.18**	**0.19**	**0.72**	**4.7**	**2.9**	**0.06**	**0.041**	**0.23**	**0.17**	**0.42**	**0.081**	**0.41**	**1.7**
PCBs																
Aroclor 1248	mg/kg	0.94	0.085 U	N/A	0.018 U	N/A	**0.063 J**	N/A	0.017 U	N/A	0.088 U	N/A	0.019 UJ	N/A	N/A	**0.14 J**
Aroclor 1254	mg/kg	0.97	0.085 U	N/A	0.018 U	N/A	0.09 U	N/A	**0.0071 J**	N/A	0.088 U	N/A	0.019 U	N/A	N/A	0.094 U
Aroclor 1260	mg/kg	0.99	0.085 U	N/A	0.018 U	N/A	0.09 U	N/A	0.017 U	N/A	**0.14**	N/A	0.019 U	N/A	N/A	**0.23**
PCBs (total)	mg/kg	0.97	0.77 U	N/A	0.018 U	N/A	**0.063 J**	N/A	**0.0071 J**	N/A	**0.14**	N/A	0.17 U	N/A	N/A	**0.37 J**
TPH/Oil & Grease																
Diesel Range Organics	mg/kg	6,200	**105**	**67.3 J**	**47.4**	**123**	**205**	**258**	**90.5**	**173**	**316**	**117**	**62.1**	**34.8**	**123**	**186**
Gasoline Range Organics	mg/kg	6,200	8.7 U	8 U	9.3 U	18.5 U	9.1 U	12.9 U	7.6 U	6.5 U	**8.5 J**	**6.6 J**	12.1 U	9.7 U	10.7 U	9.9 U
Oil & Grease	mg/kg	6,200	**413 J-**	**456 J-**	**131 J**	**250**	**572**	**620**	**157 J**	**419**	**372**	**466**	**136 J**	218 U	**151 J**	**789**

Bold indicates detection
Values in red indicate a detection exceedance of the Project Action Limit (PAL)

* Indicates non-validated data
^ PAH compounds were analyzed via SIM
N/A: This parameter was not analyzed for this sample.

J: The positive result reported for this analyte is a quantitative estimate.
J-: The positive result reported for this analyte is a quantitative estimate but may be biased low.
R: The result for this analyte is unreliable. Additional data is needed ot confirm or disprove the presence of this compound/analyte in the sample.
B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.
U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
UJ: This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

Table 5 - Parcel B11
Summary of Organics Detected in Soil

Parameter	Units	PAL	B11-014-SB-5 8/11/2020	B11-015-SB-1* 8/13/2020	B11-015-SB-5* 8/13/2020	B11-016-SB-1 8/11/2020	B11-016-SB-4* 10/6/2020	B11-016-SB-10* 10/6/2020	B11-017-SB-1 8/11/2020	B11-017-SB-5 8/11/2020	B11-018-SB-1* 8/12/2020	B11-018-SB-8* 8/12/2020	B11-019-SB-1* 8/12/2020	B11-019-SB-5* 8/12/2020	B11-020-SB-1 8/11/2020	B11-020-SB-4.5 8/11/2020
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	36,000	N/A	N/A	N/A	N/A	0.005 U	0.0036 U	N/A	N/A	N/A	0.0041 U	N/A	N/A	N/A	N/A
1,1-Dichloroethane	mg/kg	16	N/A	N/A	N/A	N/A	0.005 U	0.0036 U	N/A	N/A	N/A	0.0041 U	N/A	N/A	N/A	N/A
2-Butanone (MEK)	mg/kg	190,000	N/A	N/A	N/A	N/A	0.01 U	0.0073 U	N/A	N/A	N/A	0.0082 U	N/A	N/A	N/A	N/A
Acetone	mg/kg	670,000	N/A	N/A	N/A	N/A	**0.0078 J**	**0.0064 J**	N/A	N/A	N/A	0.0051 B	N/A	N/A	N/A	N/A
Benzene	mg/kg	5.1	N/A	N/A	N/A	N/A	**0.28**	**0.026**	N/A	N/A	N/A	0.0041 U	N/A	N/A	N/A	N/A
Carbon disulfide	mg/kg	3,500	N/A	N/A	N/A	N/A	**0.0044 J**	0.0036 U	N/A	N/A	N/A	0.0041 U	N/A	N/A	N/A	N/A
Cyclohexane	mg/kg	27,000	N/A	N/A	N/A	N/A	0.01 U	0.0073 U	N/A	N/A	N/A	0.0082 U	N/A	N/A	N/A	N/A
Ethylbenzene	mg/kg	25	N/A	N/A	N/A	N/A	0.005 U	0.0036 U	N/A	N/A	N/A	0.0041 U	N/A	N/A	N/A	N/A
Isopropylbenzene	mg/kg	9,900	N/A	N/A	N/A	N/A	0.005 U	0.0036 U	N/A	N/A	N/A	0.0041 U	N/A	N/A	N/A	N/A
Methyl Acetate	mg/kg	1,200,000	N/A	N/A	N/A	N/A	0.05 U	0.036 U	N/A	N/A	N/A	**0.0032 J**	N/A	N/A	N/A	N/A
Toluene	mg/kg	47,000	N/A	N/A	N/A	N/A	**0.0087**	**0.0082**	N/A	N/A	N/A	0.0041 U	N/A	N/A	N/A	N/A
Xylenes	mg/kg	2,800	N/A	N/A	N/A	N/A	0.015 U	**0.0045 J**	N/A	N/A	N/A	0.012 U	N/A	N/A	N/A	N/A
Semi-Volatile Organic Compounds^																
1,1-Biphenyl	mg/kg	200	**0.047 J**	0.75 U	0.77 U	0.77 U	0.72 U	0.069 U	**0.036 J**	0.067 U	**0.1**	**0.041 J**	0.34 U	0.073 U	**0.22 J**	0.075 U
1,2,4,5-Tetrachlorobenzene	mg/kg	350	0.072 U	0.75 U	0.77 U	0.77 U	0.72 U	0.069 U	0.07 U	0.067 U	0.072 U	0.066 U	0.34 U	0.073 U	0.71 U	0.075 U
2,4-Dimethylphenol	mg/kg	16,000	0.072 U	0.75 U	0.77 U	0.77 U	0.72 U	0.069 U	0.07 R	0.067 U	0.072 U	0.066 U	0.34 U	0.073 U	0.71 U	0.075 R
2,4-Dinitrotoluene	mg/kg	7.4	0.072 U	0.75 U	0.77 U	0.77 U	0.72 U	0.069 U	0.07 U	0.067 U	0.072 U	0.066 U	0.34 U	0.073 U	0.71 U	0.075 U
2-Chloronaphthalene	mg/kg	60,000	0.072 U	0.75 U	0.77 U	0.77 U	0.72 U	0.069 U	0.07 U	0.067 U	0.072 U	0.066 U	0.34 U	0.073 U	0.71 U	0.075 U
2-Chlorophenol	mg/kg	5,800	0.072 U	0.75 U	0.77 U	0.77 U	0.72 U	0.069 U	0.07 R	0.067 U	0.072 U	0.066 U	0.34 U	0.073 U	0.71 U	0.075 R
2-Methylnaphthalene	mg/kg	3,000	**0.031**	**0.2**	**0.75**	**0.081**	**0.036 J**	**0.0061 J**	**0.69**	**0.005 J**	**0.25**	**0.92**	**0.13**	**0.038**	**0.15**	**0.0062 J**
2-Methylphenol	mg/kg	41,000	0.072 U	0.75 U	0.77 U	0.77 U	0.72 U	0.069 U	0.07 R	0.067 U	0.072 U	0.066 U	0.34 U	0.073 U	0.71 U	0.075 R
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.14 U	1.5 U	1.5 U	1.5 U	1.4 U	0.14 U	0.14 R	0.13 U	0.14 U	0.13 U	0.68 U	0.15 U	1.4 U	0.15 R
Acenaphthene	mg/kg	45,000	**0.039**	**0.04**	**0.35**	**0.048**	**0.41**	**0.0023 J**	**0.3**	0.007 U	**0.033**	0.014 U	**0.48**	**0.0024 J**	**0.019**	0.0072 U
Acenaphthylene	mg/kg	45,000	**0.018**	**0.048**	**0.034**	**0.021**	**0.019 J**	0.0078 U	**3.1**	**0.0086**	**0.073**	0.014 U	**0.03**	**0.028**	**0.086**	**0.0034 J**
Acetophenone	mg/kg	120,000	0.072 U	0.75 U	0.77 U	0.77 U	0.72 U	0.069 U	**0.019 J**	0.067 U	0.072 U	0.066 U	0.34 U	0.073 U	0.71 U	0.075 U
Anthracene	mg/kg	230,000	**0.039**	**0.16**	**0.14**	**0.069**	**0.29**	**0.0017 J**	**6.3**	**0.0061 J**	**0.17**	0.014 U	**0.17**	**0.031**	**0.14**	**0.0037 J**
Benz[a]anthracene	mg/kg	21	**0.72**	**0.68**	**0.21**	**2**	**2.7**	**0.0092**	**8.9**	**0.041**	**0.61**	**0.0097 J**	**0.86**	**0.27**	**0.67**	**0.019**
Benzaldehyde	mg/kg	120,000	0.072 U	0.75 U	0.77 U	0.77 U	0.72 U	0.069 U	**0.018 J**	0.067 U	0.072 U	0.066 U	0.34 U	0.073 U	0.71 U	0.075 U
Benzo[a]pyrene	mg/kg	2.1	**1.3**	**0.81**	**0.17**	**4.5**	**6.6**	**0.014**	**8.4**	**0.015**	**0.5**	**0.0028 J**	**1.5**	**0.27**	**0.6**	**0.013**
Benzo[b]fluoranthene	mg/kg	21	**1.4**	**1**	**0.22**	**5.1**	**6.6**	**0.016**	**11**	**0.02**	**0.48**	**0.0066 J**	**1.6**	**0.38**	**0.96**	**0.017**
Benzo[g,h,i]perylene	mg/kg		**0.96**	**0.48**	**0.095**	**3.1**	**5**	**0.0073 J**	**4.9**	**0.016**	**0.38**	**0.0047 J**	**1.1**	**0.15**	**0.4**	**0.0096**
Benzo[k]fluoranthene	mg/kg	210	**0.45**	**0.35**	**0.088**	**1.3**	**2.3**	**0.0057 J**	**3.2**	**0.0084**	**0.24**	**0.0029 J**	**0.65**	**0.13**	**0.22**	**0.0064 J**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.023 B	0.75 U	0.77 U	0.77 U	0.72 U	**0.015 J**	0.02 B	**0.073 J**	**0.015 J**	0.066 U	**0.073 J**	0.073 U	0.71 UJ	**0.018 J**
Caprolactam	mg/kg	400,000	0.18 U	1.9 U	1.9 U	1.9 U	1.8 U	0.17 U	0.17 U	0.17 U	0.18 U	0.17 U	0.85 U	0.18 U	1.8 U	0.19 U
Carbazole	mg/kg		**0.083**	0.75 U	0.77 U	0.77 U	**0.33 J**	0.069 U	**0.022 J**	0.067 U	**0.051 J**	0.066 U	0.34 U	0.073 U	0.71 U	0.075 U
Chrysene	mg/kg	2,100	**0.68**	**0.67**	**0.19**	**2.3**	**2.8**	**0.011**	**8.4**	**0.012**	**0.54**	**0.01 J**	**0.67**	**0.31**	**0.53**	**0.011**
Dibenz[a,h]anthracene	mg/kg	2.1	**0.2**	**0.11**	**0.022**	**0.66**	**1**	**0.0016 J**	**1.2**	**0.0028 J**	**0.092**	0.014 U	**0.44**	**0.042**	**0.092**	**0.0021 J**
Di-n-butylphthalate	mg/kg	82,000	0.072 U	0.75 U	0.77 U	0.77 U	0.72 U	0.069 U	0.07 U	**0.091 J**	0.072 U	0.066 U	0.34 U	0.073 U	0.71 U	0.075 U
Fluoranthene	mg/kg	30,000	**0.47**	**0.57**	**0.29**	**1.3**	**2.6**	**0.015**	**24**	**0.016**	**0.7**	**0.023**	**0.7**	**0.22**	**1.2**	**0.023**
Fluorene	mg/kg	30,000	**0.01**	**0.016**	**0.096**	**0.012**	**0.078**	**0.0043 J**	**4.1**	**0.0011 J**	**0.028**	0.014 U	**0.062**	**0.0036 J**	**0.019**	0.0072 U
Hexachloroethane	mg/kg	8	0.072 U	0.75 U	0.77 U	0.77 U	0.72 U	0.069 U	0.07 U	0.067 U	0.072 U	0.066 U	0.34 U	0.073 U	0.71 U	0.075 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	**0.98**	**0.4**	**0.087**	**3.1**	**6**	**0.0075 J**	**5.6**	**0.011**	**0.33**	**0.0031 J**	**1**	**0.14**	**0.34**	**0.0079**
Naphthalene	mg/kg	8.6	**0.08**	**0.27**	**1.7**	**0.14**	**0.071 J**	**0.064**	**4**	**0.0092**	**0.88**	**0.14**	**0.21**	**0.075**	**1.3**	**0.025**
Nitrobenzene	mg/kg	22	0.072 U	0.75 U	0.77 U	0.77 U	0.72 U	0.069 U	0.07 U	0.067 U	0.072 U	0.066 U	0.34 U	0.073 U	0.71 U	0.075 U
N-Nitrosodiphenylamine	mg/kg	470	0.072 U	0.75 U	0.77 U	0.77 U	0.72 U	0.069 U	0.07 U	0.067 U	0.072 U	**0.25**	0.34 U	0.073 U	0.71 U	0.075 U
Phenanthrene	mg/kg		**0.13**	**0.32**	**0.44**	**0.24**	**0.62**	**0.0091**	**28**	**0.011**	**0.62**	**0.31**	**0.55**	**0.071**	**1**	**0.018**
Phenol	mg/kg	250,000	0.072 U	0.75 U	0.77 U	0.77 U	0.72 U	0.069 U	0.07 R	0.067 U	0.072 U	0.066 U	0.34 U	0.073 U	0.71 U	0.075 R
Pyrene	mg/kg	23,000	**0.56**	**0.6**	**0.23**	**1.7**	**2.7**	**0.014**	**17**	**0.014**	**0.53**	**0.021**	**0.65**	**0.33**	**1**	**0.018**
PCBs																
Aroclor 1248	mg/kg	0.94	N/A	0.019 U	N/A	**0.034**	N/A	N/A	0.018 UJ	N/A	**0.032**	N/A	0.086 U	N/A	0.018 UJ	N/A
Aroclor 1254	mg/kg	0.97	N/A	0.019 U	N/A	0.019 U	N/A	N/A	0.018 U	N/A	0.018 U	N/A	0.086 U	N/A	0.018 U	N/A
Aroclor 1260	mg/kg	0.99	N/A	0.019 U	N/A	**0.026**	N/A	N/A	0.018 U	N/A	0.018 U	N/A	0.086 U	N/A	0.018 U	N/A
PCBs (total)	mg/kg	0.97	N/A	0.17 U	N/A	**0.06 J**	N/A	N/A	0.16 U	N/A	0.16 U	N/A	0.78 U	N/A	0.16 U	N/A
TPH/Oil & Grease																
Diesel Range Organics	mg/kg	6,200	**114**	**153**	**69**	**149**	**180**	**31.5**	**73.3**	**58**	**81.7**	**1,060**	**134**	**38.6**	**112**	**21.7**
Gasoline Range Organics	mg/kg	6,200	10.4 U	13.1 U	9.5 U	12.3 U	**6.4 J**	8.3 U	7.5 U	6.8 U	11.3 U	10.9 U	9.6 U	11.4 U	10.6 U	5.3 U
Oil & Grease	mg/kg	6,200	**461**	**154 J**	**660**	**415**	**1,170**	211 U	**582**	**1,740**	**145 J**	**364**	**650**	**121 J**	**194 J**	227 U

Bold indicates detection
Values in red indicate a detection exceedance of the Project Action Limit (PAL)
* Indicates non-validated data
^ PAH compounds were analyzed via SIM
N/A: This parameter was not analyzed for this sample.

J: The positive result reported for this analyte is a quantitative estimate.
J-: The positive result reported for this analyte is a quantitative estimate but may be biased low.
R: The result for this analyte is unreliable. Additional data is needed ot confirm or disprove the presence of this compound/analyte in the sample.
B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.
U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
UJ: This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

Table 5 - Parcel B11
Summary of Organics Detected in Soil

Parameter	Units	PAL	B11-021-SB-1* 8/12/2020	B11-021-SB-4* 8/12/2020	B11-022-SB-1* 8/12/2020	B11-022-SB-5* 8/12/2020	B11-023-SB-1 8/18/2020	B11-023-SB-5 8/18/2020	B11-024-SB-1* 8/12/2020	B11-024-SB-5* 10/19/2020	B11-025-SB-1* 8/12/2020	B11-025-SB-4* 10/6/2020	B11-025-SB-10* 10/6/2020	B11-026-SB-1 8/18/2020	B11-026-SB-9* 10/19/2020	B11-026-SB-10* 10/19/2020
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	36,000	0.0045 U	0.004 U	0.0044 U	0.0048 U	N/A	N/A	N/A	0.0037 U	0.0049 U	0.0038 U	0.006 U	N/A	**0.046**	**0.01**
1,1-Dichloroethane	mg/kg	16	0.0045 U	0.004 U	0.0044 U	0.0048 U	N/A	N/A	N/A	0.0037 U	0.0049 U	0.0038 U	0.006 U	N/A	**0.0072**	0.0055 U
2-Butanone (MEK)	mg/kg	190,000	0.009 U	0.0081 U	0.0088 U	0.0096 U	N/A	N/A	N/A	0.0074 U	0.0097 U	0.0077 U	0.012 U	N/A	**0.006 J**	0.011 U
Acetone	mg/kg	670,000	0.009 U	0.0081 U	0.0096 B	0.0095 B	N/A	N/A	N/A	**0.0028 J**	0.0097 U	**0.0087**	**0.015**	N/A	**0.064**	**0.019**
Benzene	mg/kg	5.1	0.0045 U	0.004 U	0.0044 U	0.0048 U	N/A	N/A	N/A	0.0037 U	0.0049 U	**0.014**	0.006 U	N/A	**0.0092**	**0.0043 J**
Carbon disulfide	mg/kg	3,500	0.0045 U	0.004 U	0.0044 U	0.0048 U	N/A	N/A	N/A	**0.0018 J**	0.0049 U	**0.0014 J**	**0.0046 J**	N/A	0.0048 U	0.0055 U
Cyclohexane	mg/kg	27,000	0.009 U	0.0081 U	0.0088 U	0.0096 U	N/A	N/A	N/A	0.0074 U	0.0097 U	0.0077 U	0.012 U	N/A	**0.0042 J**	0.011 U
Ethylbenzene	mg/kg	25	0.0045 U	0.004 U	0.0044 U	0.0048 U	N/A	N/A	N/A	0.0037 U	0.0049 U	0.0038 U	0.006 U	N/A	**0.0067**	0.0055 U
Isopropylbenzene	mg/kg	9,900	0.0045 U	0.004 U	0.0044 U	0.0048 U	N/A	N/A	N/A	0.0037 U	0.0049 U	0.0038 U	0.006 U	N/A	0.0048 U	**0.0016 J**
Methyl Acetate	mg/kg	1,200,000	**0.0018 J**	**0.0032 J**	**0.0042 J**	**0.006 J**	N/A	N/A	N/A	0.037 U	0.049 U	0.038 U	0.06 U	N/A	0.048 U	0.055 U
Toluene	mg/kg	47,000	0.0045 U	0.004 U	0.0044 U	0.0048 U	N/A	N/A	N/A	0.0037 U	0.0049 U	**0.0029 J**	0.006 U	N/A	**0.025**	0.0055 U
Xylenes	mg/kg	2,800	0.014 U	0.012 U	0.013 U	0.014 U	N/A	N/A	N/A	0.011 U	0.015 U	0.011 U	0.018 U	N/A	**0.036**	0.017 U
Semi-Volatile Organic Compounds^																
1,1-Biphenyl	mg/kg	200	**0.22**	0.068 U	**0.15 J**	**0.21 J**	**0.21**	0.71 U	**0.068 J**	0.71 U	**0.072**	**0.12**	0.073 U	**0.077 J**	**63**	**74.7**
1,2,4,5-Tetrachlorobenzene	mg/kg	350	**0.019 J**	**0.018 J**	0.7 U	0.72 U	0.072 U	0.71 U	0.07 U	0.71 U	**0.098**	0.073 U	0.073 U	0.073 U	3.8 U	7.7 U
2,4-Dimethylphenol	mg/kg	16,000	0.07 U	0.068 U	0.7 U	0.72 U	0.072 R	0.71 U	0.07 U	0.71 U	0.071 U	**0.022 J**	0.073 U	0.073 UJ	**4.2**	7.7 U
2,4-Dinitrotoluene	mg/kg	7.4	0.07 U	0.068 U	0.7 U	0.72 U	0.072 U	0.71 U	0.07 U	0.71 U	0.071 U	0.073 U	0.073 U	0.073 U	3.8 U	7.7 U
2-Chloronaphthalene	mg/kg	60,000	0.07 U	0.068 U	0.7 U	0.72 U	0.072 U	0.71 U	0.07 U	0.71 U	**0.23**	0.073 U	0.073 U	0.073 U	3.8 U	7.7 U
2-Chlorophenol	mg/kg	5,800	0.07 U	0.068 U	0.7 U	0.72 U	0.072 R	0.71 U	0.07 U	0.71 U	**0.052 J**	0.073 U	0.073 U	0.073 UJ	3.8 U	7.7 U
2-Methylnaphthalene	mg/kg	3,000	**0.15**	**0.0022 J**	**0.46**	**0.14**	**0.08**	**0.092**	**0.044**	**0.014 J**	**0.26**	**0.31**	**0.032**	**10**	**60**	**16**
2-Methylphenol	mg/kg	41,000	0.07 U	0.068 U	0.7 U	0.72 U	0.072 R	0.71 U	0.07 U	0.71 U	0.071 U	**0.016 J**	0.073 U	0.073 UJ	**1.6 J**	7.7 U
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	**0.025 J**	0.14 U	1.4 U	1.4 U	**0.022 J**	1.4 U	0.14 U	1.4 U	0.14 U	**0.025 J**	**0.02 J**	**0.035 J**	**3 J**	15.3 U
Acenaphthene	mg/kg	45,000	**0.092**	**0.0018 J**	**0.28**	**0.2**	**0.039**	**0.049**	**0.0054 J**	**0.016 J**	**0.012**	**0.17**	**0.21**	**0.7**	**110**	**45**
Acenaphthylene	mg/kg	45,000	**0.03**	0.0072 U	**0.68**	**0.098**	**0.019**	**0.028**	**0.037**	**0.0044 J**	**0.14**	**0.062**	**0.0028 J**	**7.1**	**2.8 J**	**0.96 J**
Acetophenone	mg/kg	120,000	**0.029 J**	0.068 U	0.7 U	0.72 U	0.072 U	0.71 U	0.07 U	0.71 U	**0.065 J**	**0.055 J**	0.073 U	0.073 U	3.8 U	7.7 U
Anthracene	mg/kg	230,000	**0.25**	**0.0019 J**	**0.48**	**0.19**	**0.062**	**0.15**	**0.083**	**0.015 J**	**0.13**	**0.085**	**0.025**	**14**	**91**	**39**
Benz[a]anthracene	mg/kg	21	**0.75**	**0.012**	**3**	**1.1**	**0.34**	**0.57**	**0.7**	**0.68**	**0.6**	**0.29**	**0.26**	**21**	**18**	**7.5**
Benzaldehyde	mg/kg	120,000	**0.038 J**	0.068 U	0.7 U	0.72 U	0.072 U	0.71 U	0.07 U	0.71 U	**0.18**	**0.054 J**	0.073 U	0.073 UJ	3.8 U	7.7 U
Benzo[a]pyrene	mg/kg	2.1	**1.3**	**0.028**	**2.6**	**1.5**	**0.42**	**0.48**	**0.52**	**1.3**	**0.4**	**0.59**	**0.53**	**14**	**3.1 J**	**1.1 J**
Benzo[b]fluoranthene	mg/kg	21	**1.2**	**0.029**	**3.4**	**1.8**	**0.49**	**0.67**	**0.86**	**1.5**	**0.58**	**0.6**	**0.55**	**17**	**4.5 J**	**1.6 J**
Benzo[g,h,i]perylene	mg/kg		**1.3**	**0.028**	**1.8**	**1.1**	**0.29**	**0.31**	**0.63**	**1**	**0.28**	**0.45**	**0.39**	**4**	**0.8 J**	**0.42 J**
Benzo[k]fluoranthene	mg/kg	210	**0.52**	**0.016**	**1.5**	**0.74**	**0.18**	**0.19**	**0.44**	**0.46**	**0.17**	**0.23**	**0.17**	**7.1**	**1 J**	**0.4 J**
bis(2-Ethylhexyl)phthalate	mg/kg	160	**0.048 J**	0.068 U	0.7 U	0.72 U	**0.089**	0.71 U	**0.025 J**	0.71 U	**0.018 J**	**0.037 J**	**0.021 J**	**0.022 J**	**0.98 J**	7.7 U
Caprolactam	mg/kg	400,000	0.18 U	0.17 U	1.8 U	1.8 U	0.18 U	1.8 U	0.18 U	1.8 U	0.18 U	**0.039 J**	0.18 U	0.18 U	9.6 U	19.2 U
Carbazole	mg/kg		**0.14**	0.068 U	**0.24 J**	**0.26 J**	**3.6**	0.71 U	**0.065 J**	0.71 U	0.071 U	**0.21**	**0.064 J**	**0.76 J**	**28**	**24.7**
Chrysene	mg/kg	2,100	**0.67**	**0.014**	**2.2**	**0.95**	**0.3**	**0.46**	**0.54**	**0.74**	**0.38**	**0.3**	**0.2**	**15**	**14**	**5.9**
Dibenz[a,h]anthracene	mg/kg	2.1	**0.3**	**0.0052 J**	**0.41**	**0.39**	**0.067**	**0.069**	**0.19**	**0.18**	**0.07**	**0.11**	**0.087**	**2**	7.6 U	3.8 U
Di-n-butylphthalate	mg/kg	82,000	0.07 U	0.068 U	0.7 U	0.72 U	0.072 U	0.71 U	0.07 U	0.71 U	0.071 U	**0.041 J**	0.073 U	0.073 U	3.8 U	7.7 U
Fluoranthene	mg/kg	30,000	**0.81**	**0.012**	**4.1**	**1**	**0.46**	**0.93**	**0.54**	**0.65**	**0.62**	**0.37**	**0.18**	**43**	**86**	**34**
Fluorene	mg/kg	30,000	**0.065**	0.0072 U	**0.16**	**0.039**	**0.01**	**0.024**	**0.0039 J**	0.035 U	**0.024**	**0.059**	**0.021**	**10**	**120**	**47**
Hexachloroethane	mg/kg	8	0.07 U	0.068 U	0.7 U	0.72 U	0.072 U	0.71 U	0.07 U	0.71 U	0.071 U	0.073 U	0.073 U	0.073 U	3.8 U	7.7 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	**0.95**	**0.023**	**1.6**	**0.95**	**0.24**	**0.25**	**0.47**	**1.1**	**0.25**	**0.58**	**0.46**	**6.3**	7.6 U	3.8 U
Naphthalene	mg/kg	8.6	**0.5**	**0.0058 J**	**1.1**	**0.53**	**0.084**	**0.15**	**0.24**	**0.048**	**0.49**	**3.6**	**0.049**	**40**	**61**	**7.4**
Nitrobenzene	mg/kg	22	0.07 U	0.068 U	0.7 U	0.72 U	0.072 U	0.71 U	0.07 U	0.71 U	**0.038 J**	0.073 U	0.073 U	0.073 U	3.8 U	7.7 U
N-Nitrosodiphenylamine	mg/kg	470	0.07 U	0.068 U	0.7 U	0.72 U	0.072 U	0.71 U	0.07 U	0.71 U	0.071 U	**0.015 J**	0.073 U	0.073 U	3.8 U	**32**
Phenanthrene	mg/kg		**0.52**	**0.0062 J**	**1.6**	**0.65**	**0.29**	**0.68**	**0.38**	**0.12**	**0.55**	**0.23**	**0.099**	**46**	**500**	**200**
Phenol	mg/kg	250,000	**0.028 J**	0.068 U	0.7 U	0.72 U	**0.06 J**	0.71 U	0.07 U	0.71 U	**0.041 J**	0.073 U	0.073 U	**0.027 J**	**1.7 J**	7.7 U
Pyrene	mg/kg	23,000	**0.8**	**0.01**	**3.6**	**1.1**	**0.39**	**0.81**	**0.52**	**0.73**	**0.5**	**0.33**	**0.19**	**28**	**95**	**40**
PCBs																
Aroclor 1248	mg/kg	0.94	0.018 U	N/A	0.089 U	N/A	0.09 UJ	N/A	0.018 U	N/A	0.088 U	N/A	N/A	0.094 UJ	N/A	N/A
Aroclor 1254	mg/kg	0.97	0.018 U	N/A	0.089 U	N/A	0.09 U	N/A	**0.24**	N/A	0.088 U	N/A	N/A	0.094 U	N/A	N/A
Aroclor 1260	mg/kg	0.99	**0.15**	N/A	0.089 U	N/A	0.09 U	N/A	0.018 U	N/A	0.088 U	N/A	N/A	0.094 U	N/A	N/A
PCBs (total)	mg/kg	0.97	**0.15 J**	N/A	0.8 U	N/A	0.81 U	N/A	**0.24**	N/A	0.79 U	N/A	N/A	0.85 U	N/A	N/A
TPH/Oil & Grease																
Diesel Range Organics	mg/kg	6,200	**296**	**17.2**	**391**	**309**	**193**	**398**	**58.2**	**348**	**127**	**179**	**77.9**	**128**	**21,400**	**24,500**
Gasoline Range Organics	mg/kg	6,200	9.7 U	9.6 U	10.3 U	10.5 U	10.3 U	10.4 U	10.7 U	8.4 U	10.7 U	8.6 U	9.9 U	8.1 U	**14 J**	9.8 U
Oil & Grease	mg/kg	6,200	**286**	208 U	**955**	**886**	**351 J-**	**1,400 J-**	213 U	**1,210**	**154 J**	**185 J**	225 U	**295 J-**	**24,800**	**23,300**

Bold indicates detection
Values in red indicate a detection exceedance of the Project Action Limit (PAL)

* Indicates non-validated data
^ PAH compounds were analyzed via SIM
N/A: This parameter was not analyzed for this sample.

J: The positive result reported for this analyte is a quantitative estimate.
J-: The positive result reported for this analyte is a quantitative estimate but may be biased low.
R: The result for this analyte is unreliable. Additional data is needed ot confirm or disprove the presence of this compound/analyte in the sample.
B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.
U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
UJ: This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

Table 5 - Parcel B11
Summary of Organics Detected in Soil

Parameter	Units	PAL	B11-027-SB-1 8/18/2020	B11-027-SB-5 8/18/2020	B11-028-SB-1* 8/10/2020	B11-028-SB-7.5* 8/10/2020	B11-029-SB-1* 8/10/2020	B11-029-SB-5* 8/10/2020	B11-030-SB-1* 8/10/2020	B11-030-SB-5* 8/10/2020	B11-031-SB-1* 8/10/2020	B11-031-SB-5* 10/5/2020	B11-032-SB-1* 8/10/2020	B11-032-SB-5* 8/10/2020	B11-033-SB-1* 8/10/2020	B11-033-SB-7* 8/10/2020
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	36,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0055 U
1,1-Dichloroethane	mg/kg	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0055 U
2-Butanone (MEK)	mg/kg	190,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.011 U
Acetone	mg/kg	670,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.013**
Benzene	mg/kg	5.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0055 U
Carbon disulfide	mg/kg	3,500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0055 U
Cyclohexane	mg/kg	27,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.011 U
Ethylbenzene	mg/kg	25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0055 U
Isopropylbenzene	mg/kg	9,900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0055 U
Methyl Acetate	mg/kg	1,200,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.055 U
Toluene	mg/kg	47,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0055 U
Xylenes	mg/kg	2,800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.017 U
Semi-Volatile Organic Compounds^																
1,1-Biphenyl	mg/kg	200	**0.23 J**	**0.19 J**	**0.02 J**	**0.28 J**	0.68 U	0.072 U	0.72 U	**0.16 J**	**0.15**	**0.034 J**	0.77 U	0.72 U	**0.51 J**	**0.16 J**
1,2,4,5-Tetrachlorobenzene	mg/kg	350	0.78 U	0.81 U	0.072 U	0.79 U	0.68 U	0.072 U	0.72 U	0.7 U	0.071 U	0.068 U	0.77 U	0.72 U	0.74 U	0.73 U
2,4-Dimethylphenol	mg/kg	16,000	0.78 U	0.81 U	0.072 U	0.79 U	0.68 U	0.072 U	0.72 U	0.7 U	**0.019 J**	0.068 U	0.77 U	0.72 U	0.74 U	0.73 U
2,4-Dinitrotoluene	mg/kg	7.4	0.78 U	0.81 U	0.072 U	0.79 U	0.68 U	0.072 U	0.72 U	0.7 U	0.071 U	0.068 U	0.77 U	0.72 U	0.74 U	0.73 U
2-Chloronaphthalene	mg/kg	60,000	0.78 U	0.81 U	0.072 U	0.79 U	0.68 U	0.072 U	0.72 U	0.7 U	0.071 U	0.068 U	0.77 U	0.72 U	0.74 U	0.73 U
2-Chlorophenol	mg/kg	5,800	0.78 U	0.81 U	0.072 U	0.79 U	0.68 U	0.072 U	0.72 U	0.7 U	0.071 U	0.068 U	0.77 U	0.72 U	0.74 U	0.73 U
2-Methylnaphthalene	mg/kg	3,000	**0.13**	**0.13**	**0.041**	**0.34**	**0.04**	0.0071 U	**0.0065 J**	**0.0061 J**	**0.46**	**0.082**	**0.02**	**0.0077 J**	**2.6**	**0.41**
2-Methylphenol	mg/kg	41,000	0.78 U	0.81 U	0.072 U	0.79 U	0.68 U	0.072 U	0.72 U	0.7 U	**0.014 J**	0.068 U	0.77 U	0.72 U	0.74 U	0.73 U
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	1.6 U	1.6 U	0.14 U	1.6 U	1.4 U	0.14 U	1.4 U	1.4 U	**0.022 J**	0.14 U	1.5 U	1.4 U	1.5 U	1.5 U
Acenaphthene	mg/kg	45,000	**0.02**	**0.055**	**0.0053 J**	**0.38**	**0.013 J**	0.0071 U	0.0074 U	0.0072 U	**0.039 J**	**0.0097 J**	0.0078 U	0.0078 U	**0.24**	**0.086**
Acenaphthylene	mg/kg	45,000	**0.11**	**0.1**	**0.03**	**0.025 J**	**0.064**	**0.0014 J**	**0.003 J**	0.0072 U	**0.13 J**	**0.058**	**0.0058 J**	**0.0032 J**	**0.5**	**0.25**
Acetophenone	mg/kg	120,000	0.78 U	0.81 U	0.072 U	0.79 U	0.68 U	0.072 U	0.72 U	0.7 U	**0.076**	**0.016 J**	0.77 U	0.72 U	0.74 U	0.73 U
Anthracene	mg/kg	230,000	**0.11**	**0.14**	**0.03**	**0.2**	**0.03 J**	**0.0011 J**	**0.0023 J**	0.0072 U	**0.15**	**0.066**	**0.0062 J**	**0.0063 J**	**1.3**	**0.31**
Benz[a]anthracene	mg/kg	21	**0.56**	**0.77**	**0.23**	**1**	**0.65**	**0.016**	**0.023**	**0.0051 J**	**0.68**	**0.28**	**0.034**	**0.026**	**3.2**	**1.6**
Benzaldehyde	mg/kg	120,000	0.78 U	0.81 U	0.072 U	0.79 U	0.68 U	0.072 U	0.72 U	0.7 U	**0.099**	**0.026 J**	0.77 U	0.72 U	0.74 U	0.73 U
Benzo[a]pyrene	mg/kg	2.1	**0.51**	**0.66**	**0.27**	**1.7**	**1**	**0.024**	**0.021**	**0.0018 J**	**0.7**	**0.43**	**0.019**	**0.018**	2.3	**1.3**
Benzo[b]fluoranthene	mg/kg	21	**0.63**	**0.82**	**0.36**	**1.9**	**1.1**	**0.03**	**0.026**	**0.0038 J**	**0.86**	**0.52**	**0.028**	**0.036**	**3.8**	**1.8**
Benzo[g,h,i]perylene	mg/kg		**0.29**	**0.37**	**0.18**	**1.2**	**0.75**	**0.018**	**0.018**	**0.0019 J**	**0.53**	**0.34**	**0.017**	**0.013**	**2.1**	**0.85**
Benzo[k]fluoranthene	mg/kg	210	**0.21**	**0.26**	**0.12**	**0.7**	**0.39**	**0.011**	**0.01**	**0.0013 J**	**0.32**	**0.19**	**0.0097**	**0.012**	**1.1**	**0.54**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.78 U	**0.23 J**	**0.015 J**	0.79 U	0.68 U	**0.02 J**	0.72 U	0.7 U	**0.03 J**	**0.017 J**	0.77 U	0.72 U	0.74 U	0.73 U
Caprolactam	mg/kg	400,000	2 U	2 U	0.18 U	2 U	1.7 U	0.18 U	1.8 U	1.8 U	0.18 U	**0.026 J**	1.9 U	1.8 U	1.8 U	1.8 U
Carbazole	mg/kg		**0.47 J**	0.81 U	**0.049 J**	**0.27 J**	0.68 U	0.072 U	0.72 U	0.7 U	**0.13**	**0.03 J**	0.77 U	0.72 U	**0.3 J**	**0.18 J**
Chrysene	mg/kg	2,100	**0.35**	**0.56**	**0.21**	**1.1**	**0.67**	**0.014**	**0.015**	**0.0036 J**	**0.56**	**0.34**	**0.018**	**0.031**	**2.7**	**1.1**
Dibenz[a,h]anthracene	mg/kg	2.1	**0.081**	**0.081**	**0.04**	**0.26**	**0.16**	**0.0034 J**	**0.0032 J**	0.0072 U	**0.11 J**	**0.063**	**0.0034 J**	**0.0035 J**	**0.46**	**0.22**
Di-n-butylphthalate	mg/kg	82,000	0.78 U	0.81 U	**0.021 J**	0.79 U	0.68 U	**0.058 J**	0.72 U	0.7 U	**0.057 J**	0.068 U	0.77 U	0.72 U	0.74 U	0.73 U
Fluoranthene	mg/kg	30,000	**0.57**	**0.99**	**0.23**	**1.2**	**0.55**	**0.013**	**0.014**	**0.0038 J**	**0.84**	**0.54**	**0.026**	**0.033**	**6.3**	**1.8**
Fluorene	mg/kg	30,000	**0.022**	**0.05**	**0.003 J**	**0.2**	**0.0058 J**	0.0071 U	0.0074 U	0.0072 U	**0.026 J**	**0.018 J**	**0.0011 J**	**0.00093 J**	**0.13 J**	**0.065**
Hexachloroethane	mg/kg	8	0.78 U	0.81 U	0.072 U	0.79 U	0.68 U	0.072 U	0.72 U	0.7 U	0.071 U	0.068 U	0.77 U	0.72 U	0.74 U	0.73 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	**0.32**	**0.32**	**0.16**	**0.99**	**0.6**	**0.013**	**0.013**	**0.0015 J**	**0.42**	**0.4**	**0.013**	**0.012**	**1.7**	**0.77**
Naphthalene	mg/kg	8.6	**0.44**	**0.56**	**0.27**	**0.21**	**0.12**	**0.0048 J**	**0.013**	**0.0022 J**	9.2	**0.22**	**0.064**	**0.017**	14	**1.6**
Nitrobenzene	mg/kg	22	0.78 U	0.81 U	0.072 U	0.79 U	0.68 U	0.072 U	0.72 U	0.7 U	0.071 U	0.068 U	0.77 U	0.72 U	0.74 U	0.73 U
N-Nitrosodiphenylamine	mg/kg	470	0.78 U	0.81 U	0.072 U	0.79 U	0.68 U	0.072 U	0.72 U	0.7 U	0.071 U	0.068 U	0.77 U	0.72 U	0.74 U	0.73 U
Phenanthrene	mg/kg		**0.33**	**0.38**	**0.14**	**0.91**	**0.14**	**0.01**	**0.0089**	**0.0026 J**	**0.74**	**0.36**	**0.033**	**0.02**	**5.8**	**1.1**
Phenol	mg/kg	250,000	0.78 U	0.81 U	0.072 U	0.79 U	0.68 U	0.072 U	0.72 U	0.7 U	0.071 U	0.068 U	0.77 U	0.72 U	0.74 U	0.73 U
Pyrene	mg/kg	23,000	**0.5**	**1.1**	**0.22**	**1.2**	**0.6**	**0.012**	**0.013**	**0.0028 J**	**0.7**	**0.46**	**0.02**	**0.036**	**5.4**	**1.9**
PCBs																
Aroclor 1248	mg/kg	0.94	0.097 UJ	N/A	0.018 U	N/A	0.017 U	N/A	0.018 U	N/A	0.018 U	N/A	0.02 U	N/A	0.091 U	N/A
Aroclor 1254	mg/kg	0.97	0.097 U	N/A	0.018 U	N/A	0.017 U	N/A	0.018 U	N/A	0.018 U	N/A	0.02 U	N/A	0.091 U	N/A
Aroclor 1260	mg/kg	0.99	0.097 U	N/A	0.018 U	N/A	0.017 U	N/A	0.018 U	N/A	0.018 U	N/A	0.02 U	N/A	0.091 U	N/A
PCBs (total)	mg/kg	0.97	0.87 U	N/A	0.16 U	N/A	0.16 U	N/A	0.16 U	N/A	0.16 U	N/A	0.18 U	N/A	0.82 U	N/A
TPH/Oil & Grease																
Diesel Range Organics	mg/kg	6,200	**356**	**855**	**23.5**	**333**	**40.9**	**26.4**	**30.7**	**58.3**	**115**	**84.8**	**60.5**	**362**	**188**	**118**
Gasoline Range Organics	mg/kg	6,200	9.8 U	13.7 U	12.7 U	10.2 U	10.7 U	10.7 U	9.5 U	10.1 U	7.8 U	9.8 U	10 U	8.6 U	11.1 U	11.1 U
Oil & Grease	mg/kg	6,200	**6,150 J-**	**7,590 J-**	216 U	**173 J**	210 U	216 U	218 U	211 U	216 U	**116 J**	238 U	**533**	**468**	**221 J**

Bold indicates detection
Values in red indicate a detection exceedance of the Project Action Limit (PAL)

* Indicates non-validated data
^ PAH compounds were analyzed via SIM
N/A: This parameter was not analyzed for this sample.

J: The positive result reported for this analyte is a quantitative estimate.
J-: The positive result reported for this analyte is a quantitative estimate but may be biased low.
R: The result for this analyte is unreliable. Additional data is needed ot confirm or disprove the presence of this compound/analyte in the sample.
B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.
U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
UJ: This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.

Table 6 - Parcel B11
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B11-001-SB-1* 8/13/2020	B11-001-SB-5* 8/13/2020	B11-002-SB-1* 8/13/2020	B11-002-SB-5* 8/13/2020	B11-003-SB-1 8/11/2020	B11-003-SB-5 8/11/2020	B11-004-SB-1 8/11/2020	B11-004-SB-4 8/11/2020
Metals										
Aluminum	mg/kg	1,100,000	**6,530**	**7,410**	**7,890**	**4,490**	**10,400 J**	**14,100 J**	**20,500 J**	**27,500 J**
Antimony	mg/kg	470	**6.4**	**5.3**	**3.8**	**4.7**	2.7 U	**2.3 J**	2.7 U	**3**
Arsenic	mg/kg	3	2.3 U	**5**	**9**	2.2 U	**5.5 J**	**10.4 J**	**4.2 J**	**5.7 J**
Barium	mg/kg	220,000	**80.7**	**64.7**	**68.3**	**40.4**	**129**	**172**	**87.1**	**262**
Beryllium	mg/kg	2,300	**0.65 J**	**0.79 J**	**0.55 J**	**1.1**	**1.1**	**0.97**	**0.47 J**	**3.6**
Cadmium	mg/kg	980	**0.73 J**	**0.91 J**	**0.91 J**	**0.74 J**	**2.9**	**1.4**	**1.4**	**2**
Chromium	mg/kg	120,000	**929**	**862**	**535**	**1,090**	**617 J**	**226 J**	**606 J**	**58.2 J**
Chromium VI	mg/kg	6.3	1.1 U	1.1 U	1.1 U	1.1 U	0.98 B	0.9 B	0.97 B	0.83 B
Cobalt	mg/kg	350	**4.6**	**6.4**	**6.6**	4.4 U	**7.9**	**14**	**5**	**5.4**
Copper	mg/kg	47,000	**52.9**	**64.7**	**63.3**	**85.3**	**80.3**	**134**	**48.8**	**47.6**
Iron	mg/kg	820,000	**147,000**	**176,000**	**279,000**	**163,000**	**151,000 J**	**114,000 J**	**188,000 J**	**27,200 J**
Lead	mg/kg	800	**69.6**	**63.4**	**47.9**	**33.3**	**120**	**136**	**93.3**	**264**
Manganese	mg/kg	26,000	**23,900**	**16,900**	**13,400**	**36,400**	**22,700**	**6,330**	**15,800**	**2,070**
Mercury	mg/kg	350	**0.18**	**0.14**	**0.15**	**0.0065 J**	**0.059 J**	**0.074 J**	**0.049 J**	**0.096 J**
Nickel	mg/kg	22,000	**23.6**	**37.5**	**51.3**	**11.4**	**35.3**	**44**	**45**	**19**
Selenium	mg/kg	5,800	3.7 U	3.5 U	3.4 U	3.5 U	3.6 U	3.6 U	3.7 U	3.6 U
Silver	mg/kg	5,800	2.7 U	2.6 U	2.6 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Thallium	mg/kg	12	**26.5**	**16.5**	**6.2 J**	**70.1**	**21.1**	**4.6 J**	**10.3**	9.1 U
Vanadium	mg/kg	5,800	**1,850**	**1,010**	**314**	**5,530**	**1,440 J**	**247 J**	**469 J**	**79.8 J**
Zinc	mg/kg	350,000	**363**	**331**	**184**	**163**	**416**	**314**	**220**	**529**
Other										
Cyanide	mg/kg	150	**2.3**	**2.4**	**1.5**	**0.22 J**	**0.64 J**	**1.8**	**0.28 J-**	**2.4**

Bold indicates detection
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N/A: This parameter was not analyzed for this sample.
* Indicates non-validated data

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
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B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte.

Table 6 - Parcel B11
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B11-005-SB-2* 8/13/2020	B11-005-SB-5* 10/7/2020	B11-006-SB-3 8/17/2020	B11-006-SB-7 8/17/2020	B11-006-SB-12 8/17/2020	B11-007-SB-1 8/18/2020	B11-007-SB-5 8/18/2020	B11-008-SB-2 8/17/2020
Metals										
Aluminum	mg/kg	1,100,000	**6,080**	**29,000**	**7,020**	**9,970**	N/A	**16,100**	**21,200**	**10,100**
Antimony	mg/kg	470	2.5 U	2.6 U	2.6 UJ	2.7 UJ	N/A	2.7 UJ	2.7 UJ	2.5 UJ
Arsenic	mg/kg	3	2.1 U	2.2 U	**2.8**	**6.6**	2.4 U	**6.5**	**2.9**	**4.2**
Barium	mg/kg	220,000	**36.5**	**91.9**	**51 J**	**75.4 J**	N/A	**202 J**	**124 J**	**95.8 J**
Beryllium	mg/kg	2,300	**0.24 J**	**0.71 J**	**0.38 J**	**0.27 J**	N/A	**2.1**	**0.45 J**	**0.99**
Cadmium	mg/kg	980	**0.34 J**	**0.89 J**	**5.4**	**0.64 J**	N/A	**8.4**	**3.6**	**0.86 J**
Chromium	mg/kg	120,000	**24.6**	**365**	**140**	**377**	N/A	**296**	**663**	**604**
Chromium VI	mg/kg	6.3	1.1 U	1.1 U	0.7 B	0.74 B	N/A	1.1 R	1.2 R	1 UJ
Cobalt	mg/kg	350	**1.9 J**	**6.4**	**2.8 J**	**6.9**	N/A	**8.4**	**8.8**	**9.6**
Copper	mg/kg	47,000	**5.9**	**41.1**	**25 J**	**36.7 J**	N/A	**38.5 J**	**65.1 J**	**59.7 J**
Iron	mg/kg	820,000	**9,490**	**89,900**	**42,200**	**234,000**	N/A	**185,000**	**158,000**	**146,000**
Lead	mg/kg	800	**16.9**	**205**	**75 J**	**20.9 J**	N/A	**85.2 J**	**148 J**	**55.9 J**
Manganese	mg/kg	26,000	**470**	**10,400**	**3,010**	**11,400**	N/A	**7,650**	**18,000**	**12,800**
Mercury	mg/kg	350	**0.0064 J**	**0.064 J**	**0.058 J**	**0.056 J**	N/A	**0.05 J**	**0.16**	**0.097 J**
Nickel	mg/kg	22,000	**13.1**	**66.2**	**21.7**	**83.4**	N/A	**61.4**	**87.6**	**25.1**
Selenium	mg/kg	5,800	3.4 U	3.5 U	3.5 U	3.6 U	N/A	3.6 U	3.6 U	3.3 U
Silver	mg/kg	5,800	2.5 U	2.6 U	2.6 U	**0.68 J**	N/A	2.7 U	**0.61 J**	2.5 U
Thallium	mg/kg	12	8.4 U	8.8 U	8.7 UJ	**4.3 J-**	N/A	**3.3 J-**	**8.1 J-**	**10.9 J**
Vanadium	mg/kg	5,800	**21.9**	**198**	**96.9**	**209**	N/A	**153**	**362**	**681**
Zinc	mg/kg	350,000	**75.7**	**179**	**22,100**	**236**	N/A	**233**	**599**	**171**
Other										
Cyanide	mg/kg	150	**0.16 J**	**0.97 J**	**0.19 J-**	**1 J-**	N/A	**1.2 J-**	**2.3 J-**	**2.3 J-**

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Table 6 - Parcel B11
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B11-008-SB-6	B11-009-SB-4*	B11-009-SB-8*	B11-010-SB-2*	B11-010-SB-6*	B11-011-SB-2*	B11-011-SB-9*
			8/17/2020	10/7/2020	10/7/2020	10/7/2020	10/7/2020	10/6/2020	10/6/2020
Metals									
Aluminum	mg/kg	1,100,000	**11,500**	**8,410**	**11,300**	**17,900**	**13,500**	**8,350**	**4,640**
Antimony	mg/kg	470	2.5 UJ	**16.1**	**15.5**	**2.8**	**13.2**	**16.3**	2.5 U
Arsenic	mg/kg	3	**4.3**	2.2 U	2.1 U	**11.4**	**13.7**	2.1 U	**4.4**
Barium	mg/kg	220,000	**97.4 J**	**205**	**280**	**283**	**266**	**268**	**70.4**
Beryllium	mg/kg	2,300	**0.73 J**	**1.1**	**1.5**	**1.8**	**1.6**	**2.8**	**0.37 J**
Cadmium	mg/kg	980	**1.5**	**2.1**	**3.3**	**1.8**	**4.3**	**0.72 J**	**0.49 J**
Chromium	mg/kg	120,000	**797**	**1,460**	**1,390**	**407**	**1,750**	**2,210**	**358**
Chromium VI	mg/kg	6.3	0.82 B	**0.98 J**	**1 J**	1.1 U	**1.1 J**	**0.72 J**	1.1 U
Cobalt	mg/kg	350	**5.9**	**9.1**	**13.5**	**19.9**	**45.9**	**3.9 J**	**19**
Copper	mg/kg	47,000	**63.2 J**	**72.4**	**149**	**110**	**509**	**75.4**	**185**
Iron	mg/kg	820,000	**188,000**	**134,000**	**173,000**	**120,000**	**473,000**	**177,000**	**260,000**
Lead	mg/kg	800	**103 J**	**118**	**344**	**80.2**	**448**	**28.8**	**27.5**
Manganese	mg/kg	26,000	**18,600**	**25,300**	**36,400**	**15,700**	**38,700**	**64,800**	**6,220**
Mercury	mg/kg	350	**0.052 J**	**0.026 J**	**0.043 J**	**0.35**	**0.14**	0.1 U	**0.011 J**
Nickel	mg/kg	22,000	**47.7**	**28.5**	**46.2**	**86.2**	**234**	**26.7**	**93.7**
Selenium	mg/kg	5,800	3.3 U	3.5 U	3.4 U	3.4 U	4.5 U	3.3 U	3.3 U
Silver	mg/kg	5,800	2.5 U	2.6 U	2.5 U	2.5 U	3.3 U	2.5 U	2.5 U
Thallium	mg/kg	12	**19.3 J**	**13.1**	**14.7**	8.5 U	**20.5**	**7.6 J**	8.3 U
Vanadium	mg/kg	5,800	**1,270**	**4,610**	**5,840**	**230**	**5,570**	**9,980**	**380**
Zinc	mg/kg	350,000	**485**	**297**	**504**	**314**	**709**	**103**	**55.7**
Other									
Cyanide	mg/kg	150	**0.83 J-**	**1.2**	**0.44 J**	**2.5**	**1.2**	**0.63 J**	**0.57 J**

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Table 6 - Parcel B11
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B11-012-SB-2* 10/7/2020	B11-012-SB-8* 10/7/2020	B11-013-SB-1 8/11/2020	B11-013-SB-4* 10/5/2020	B11-014-SB-1 8/11/2020	B11-014-SB-5 8/11/2020	B11-015-SB-1* 8/13/2020
Metals									
Aluminum	mg/kg	1,100,000	**15,700**	**10,500**	**11,500 J**	**7,390**	**18,200 J**	**11,000 J**	**8,330**
Antimony	mg/kg	470	**6.2**	**13.7**	**4.6**	**6.7**	2.8 U	2.7 U	**5.8**
Arsenic	mg/kg	3	**5.3**	**4.2**	**10.2 J**	2.1 U	**4.3 J**	**9 J**	**13.4**
Barium	mg/kg	220,000	**242**	**192**	**37.9**	**113**	**199**	**148**	**80.9**
Beryllium	mg/kg	2,300	**1.6**	**1.2**	**0.36 J**	**1.7**	**1.9**	**1.1**	**0.6 J**
Cadmium	mg/kg	980	**2.3**	**3.2**	**0.66 J**	**1.5**	**1.1 J**	**3.5**	**0.67 J**
Chromium	mg/kg	120,000	**693**	**1,330**	**417 J**	**1,080**	**225 J**	**936 J**	**338**
Chromium VI	mg/kg	6.3	1.1 U	**0.91 J**	1.1 B	**0.76 J**	0.83 B	0.92 B	1.1 U
Cobalt	mg/kg	350	**28.9**	**21.2**	**7.7**	**6.8**	**5.3**	**58.9**	**9**
Copper	mg/kg	47,000	**115**	**130**	**40.5**	**65.5**	**42.1**	**227**	**67.8**
Iron	mg/kg	820,000	**143,000**	**191,000**	**311,000 J**	**144,000**	**78,500 J**	**164,000 J**	**330,000**
Lead	mg/kg	800	**144**	**217**	**12**	**87.4**	**146**	**155**	**32.7**
Manganese	mg/kg	26,000	**22,200**	**25,200**	**12,900**	**22,400**	**11,200**	**43,600**	**9,940**
Mercury	mg/kg	350	**0.05 J**	**0.082 J**	**0.044 J**	**0.032 J**	**1.4**	**0.055 J**	**0.073 J**
Nickel	mg/kg	22,000	**51.8**	**114**	**60.3**	**18.3**	**19.5**	**29.8**	**60.5**
Selenium	mg/kg	5,800	3.4 U	3.5 U	3.8 U	3.4 U	3.7 U	3.6 U	3.5 U
Silver	mg/kg	5,800	2.5 U	2.6 U	2.8 U	2.5 U	2.8 U	2.7 U	2.6 U
Thallium	mg/kg	12	8.4 U	**10.9**	**8.2 J**	**6 J**	**6.5 J**	**37**	**5.8 J**
Vanadium	mg/kg	5,800	**1,230**	**3,940**	**457 J**	**4,820**	**361 J**	**2,270 J**	**264**
Zinc	mg/kg	350,000	**524**	**608**	**68.2**	**270**	**259**	**938**	**129**
Other									
Cyanide	mg/kg	150	**1.5**	**0.64 J**	**0.81 J-**	**0.77 J**	**1.3 J-**	**0.41 J-**	**0.84 J**

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B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte.

Table 6 - Parcel B11
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B11-015-SB-5* 8/13/2020	B11-016-SB-1 8/11/2020	B11-016-SB-4* 10/6/2020	B11-017-SB-1 8/11/2020	B11-017-SB-5 8/11/2020	B11-018-SB-1* 8/12/2020	B11-018-SB-8* 8/12/2020
Metals									
Aluminum	mg/kg	1,100,000	**4,710**	**8,520 J**	**20,300**	**16,000 J**	**1,260 J**	**13,200**	**6,240**
Antimony	mg/kg	470	**4.6**	2.9 U	2.7 U	2.6 U	**13.1**	2.6 U	2.4 U
Arsenic	mg/kg	3	**25.9**	2.4 U	2.3 U	**4.2 J**	**14.1 J**	2.1 U	2 U
Barium	mg/kg	220,000	**40.6**	**41.8**	**175**	**55.5**	**73.1**	**195**	**94.1**
Beryllium	mg/kg	2,300	**0.22 J**	**0.22 J**	**2.8**	**0.29 J**	0.85 U	**1.1**	**1.9**
Cadmium	mg/kg	980	**0.58 J**	**0.65 J**	**0.34 J**	**0.74 J**	**0.3 J**	**1.1 J**	**0.63 J**
Chromium	mg/kg	120,000	**321**	**1,080 J**	**51.7**	**719 J**	**245 J**	**1,390**	**1,600**
Chromium VI	mg/kg	6.3	1.2 U	1 B	**1 J**	**1.2 J-**	0.67 B	**0.74 J**	**1**
Cobalt	mg/kg	350	**8.9**	**2.5 J**	**2.6 J**	**7**	**17.1**	**3.1 J**	**0.84 J**
Copper	mg/kg	47,000	**59.7**	**33.4**	**18.5**	**60.8**	**115**	**50**	**60.6**
Iron	mg/kg	820,000	**386,000**	**192,000 J**	**41,200**	**300,000 J**	**542,000 J**	**163,000**	**189,000**
Lead	mg/kg	800	**13.6**	**15.7**	**9.5**	**15.6**	2.1 U	**36.5**	**7.9**
Manganese	mg/kg	26,000	**10,700**	**20,200**	**2,070**	**17,100**	**2,760**	**25,400**	**60,000**
Mercury	mg/kg	350	**0.0096 J**	**0.027 J**	**0.015 J**	**0.016 J**	**0.0065 J**	**0.022 J**	0.095 U
Nickel	mg/kg	22,000	**69.7**	**24.9**	**5.7 J**	**57.7**	**136**	**35.8**	**14.5**
Selenium	mg/kg	5,800	3.7 U	3.8 U	3.6 U	3.4 U	**3.1 J**	3.4 U	3.2 U
Silver	mg/kg	5,800	2.8 U	2.9 U	2.7 U	2.6 U	**1.7 J**	2.6 U	2.4 U
Thallium	mg/kg	12	**4.4 J**	**11.2**	9 U	**11.1**	8.5 U	**15.5**	**85.4**
Vanadium	mg/kg	5,800	**203**	**487 J**	**133**	**627 J**	**21.7 J**	**651**	**8,110**
Zinc	mg/kg	350,000	**79.5**	**92.5**	**25.1**	**180**	**50**	**158**	**41.4**
Other									
Cyanide	mg/kg	150	**0.93**	**1.4 J-**	**2.1**	**0.86 J-**	**0.22 J-**	**0.89 J**	**0.35 J**

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Table 6 - Parcel B11
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B11-018-SB-10*	B11-019-SB-1*	B11-019-SB-5*	B11-020-SB-1	B11-020-SB-4.5	B11-021-SB-1*	B11-021-SB-4*
			8/12/2020	8/12/2020	8/12/2020	8/11/2020	8/11/2020	8/12/2020	8/12/2020
Metals									
Aluminum	mg/kg	1,100,000	N/A	**9,380**	**8,510**	**9,690 J**	**20,500 J**	**6,750**	**5,830**
Antimony	mg/kg	470	N/A	2.4 U	2.6 U	2.6 U	2.7 U	2.4 U	2.4 U
Arsenic	mg/kg	3	N/A	**2**	2.2 U	2.2 U	2.3 U	2 U	**4**
Barium	mg/kg	220,000	N/A	**85.4**	**72.6**	**103**	**42.3**	**117**	**93.2**
Beryllium	mg/kg	2,300	N/A	**1.3**	**1.4**	**0.54 J**	**0.26 J**	**1.1**	**1.2**
Cadmium	mg/kg	980	N/A	**0.73 J**	**0.81 J**	**0.74 J**	**0.47 J**	**0.83 J**	**1.3**
Chromium	mg/kg	120,000	N/A	**787**	**969**	**967 J**	**955 J**	**987**	**1,960**
Chromium VI	mg/kg	6.3	N/A	**0.76 J**	**1.1 J**	0.8 B	0.83 B	**0.67 J**	**1.8**
Cobalt	mg/kg	350	N/A	**3.4 J**	**1.1 J**	**2.6 J**	**0.59 J**	**2.2 J**	**3.7 J**
Copper	mg/kg	47,000	N/A	**40.5**	**30.3**	**37.1**	**17.1**	**52**	**58.2**
Iron	mg/kg	820,000	N/A	**176,000**	**187,000**	**203,000 J**	**141,000 J**	**185,000**	**196,000**
Lead	mg/kg	800	N/A	**42.6**	**31.1**	**32.4**	**4.4**	**22.4**	**47.3**
Manganese	mg/kg	26,000	**42,500**	**28,700**	**37,700**	**20,400**	**22,300**	**32,400**	**39,000**
Mercury	mg/kg	350	N/A	**0.033 J**	**0.018 J**	**0.04 J**	0.11 U	0.1 U	0.1 U
Nickel	mg/kg	22,000	N/A	**16.5**	**10.4**	**25.7**	**12.8**	**15.9**	**20.4**
Selenium	mg/kg	5,800	N/A	3.3 U	3.5 U	3.5 U	3.6 U	3.3 U	3.2 U
Silver	mg/kg	5,800	N/A	2.4 U	2.6 U	2.6 U	2.7 U	2.4 U	2.4 U
Thallium	mg/kg	12	**11.5**	**32.6**	**48.5**	**14.1**	**15.6**	**36.5**	**52.9**
Vanadium	mg/kg	5,800	**3,890**	**2,470**	**5,050**	**774 J**	**748 J**	**3,290**	**4,690**
Zinc	mg/kg	350,000	N/A	**127**	**67.5**	**205**	**45.9**	**137**	**249**
Other									
Cyanide	mg/kg	150	N/A	**1.1**	**0.27 J**	**1.2**	**0.32 J**	**1.2**	**1.4**

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Table 6 - Parcel B11
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B11-022-SB-1* 8/12/2020	B11-022-SB-5* 8/12/2020	B11-023-SB-1 8/18/2020	B11-023-SB-5 8/18/2020	B11-024-SB-1* 8/12/2020	B11-024-SB-5* 10/19/2020	B11-025-SB-1* 8/12/2020
Metals									
Aluminum	mg/kg	1,100,000	**8,140**	**9,010**	**16,200**	**9,290**	**4,270**	**7,200**	**6,400**
Antimony	mg/kg	470	2.6 U	2.7 U	2.5 UJ	2.6 UJ	2.6 U	2.5 U	2.6 U
Arsenic	mg/kg	3	**3**	2.3 U	**3.4**	**7.7**	2.1 U	**3.6**	2.2 U
Barium	mg/kg	220,000	**80.5**	**69.2**	**124 J**	**94.4 J**	**44.6**	**158**	**52.9**
Beryllium	mg/kg	2,300	**0.79 J**	**0.7 J**	**1.5**	**0.68 J**	**0.22 J**	**0.52 J**	**1.2**
Cadmium	mg/kg	980	**1.1 J**	**1.1 J**	**0.84 J**	**0.71 J**	**0.7 J**	**0.75 J**	**0.66 J**
Chromium	mg/kg	120,000	**725**	**1,080**	**587**	**272**	**311**	**954**	**1,010**
Chromium VI	mg/kg	6.3	1.1 U	1.1 U	0.78 B	0.74 B	1 U	1.1 U	1 U
Cobalt	mg/kg	350	**6.1**	**5.4**	**3.4 J**	**6.9**	**2 J**	**6.4**	**1.5 J**
Copper	mg/kg	47,000	**2,280**	**86**	**125 J**	**115 J**	**36.5**	**81.1**	**40.4**
Iron	mg/kg	820,000	**186,000**	**168,000**	**102,000**	**160,000**	**86,000**	**213,000**	**160,000**
Lead	mg/kg	800	**294**	**256**	**56.3 J**	**61.6 J**	**39.4**	**42.5**	**38.3**
Manganese	mg/kg	26,000	**18,500**	**17,500**	**21,200**	**9,490**	**6,490**	**16,500**	**35,900**
Mercury	mg/kg	350	**0.059 J**	**0.044 J**	**0.085 J**	**1**	**0.01 J**	**0.0064 J**	**0.026 J**
Nickel	mg/kg	22,000	**51.2**	**48.6**	**22**	**46.7**	**12.9**	**114**	**16.5**
Selenium	mg/kg	5,800	3.4 U	3.7 U	3.4 U	3.4 U	3.4 U	3.3 U	3.5 U
Silver	mg/kg	5,800	2.6 U	2.7 U	2.5 U	2.6 U	2.6 U	2.5 U	2.6 U
Thallium	mg/kg	12	**18.3**	**18.2**	**11 J**	**4.7 J-**	**4.7 J**	**8.5**	**50.4**
Vanadium	mg/kg	5,800	**1,520**	**1,570**	**457**	**225**	**249**	**366**	**4,080**
Zinc	mg/kg	350,000	**255**	**330**	**350**	**248**	**274**	**367**	**103**
Other									
Cyanide	mg/kg	150	**2**	**1.8**	**0.93 J-**	**0.95 J-**	**0.68 J**	**0.61 J**	**0.32 J**

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Table 6 - Parcel B11
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B11-025-SB-4* 10/6/2020	B11-025-SB-10* 10/6/2020	B11-026-SB-1 8/18/2020	B11-026-SB-9* 10/19/2020	B11-026-SB-10* 10/19/2020	B11-027-SB-1 8/18/2020	B11-027-SB-5 8/18/2020
Metals									
Aluminum	mg/kg	1,100,000	**9,120**	N/A	**18,600**	**8,360**	N/A	**5,930**	**6,280**
Antimony	mg/kg	470	**10.5**	N/A	2.7 UJ	2.8 U	N/A	**4.3 J**	**5.7 J**
Arsenic	mg/kg	3	2.3 U	N/A	**6.5**	**6.5**	**9**	**14.4**	**15**
Barium	mg/kg	220,000	**74.2**	N/A	**179 J**	**113**	N/A	**141 J**	**58.5 J**
Beryllium	mg/kg	2,300	**1.3**	N/A	**2.2**	**0.82 J**	N/A	**0.5 J**	**0.59 J**
Cadmium	mg/kg	980	**1.3 J**	N/A	**0.68 J**	**1 J**	N/A	**1.6**	**1.5**
Chromium	mg/kg	120,000	**1,390**	N/A	**405**	**23.1**	N/A	**279**	**300**
Chromium VI	mg/kg	6.3	1.1 U	N/A	1.1 R	1.1 U	N/A	1.2 R	0.81 B
Cobalt	mg/kg	350	**1.8 J**	N/A	**4.9**	**10.1**	N/A	**12.5**	**14**
Copper	mg/kg	47,000	**48**	N/A	**33 J**	**28.7**	N/A	**80.2 J**	**108 J**
Iron	mg/kg	820,000	**169,000**	N/A	**149,000**	**17,500**	N/A	**318,000**	**337,000**
Lead	mg/kg	800	**141**	N/A	**115 J**	**84.6**	N/A	**1,080 J**	**86.5 J**
Manganese	mg/kg	26,000	**40,500**	**18,900**	**11,500**	**335**	N/A	**6,910**	**5,490**
Mercury	mg/kg	350	**0.022 J**	N/A	**0.036 J**	**0.056 J**	N/A	**0.13**	**0.11 J**
Nickel	mg/kg	22,000	**10.4**	N/A	**32.2**	**12.9**	N/A	**125**	**135**
Selenium	mg/kg	5,800	3.7 U	N/A	3.6 U	3.7 U	N/A	3.7 U	3.9 U
Silver	mg/kg	5,800	2.7 U	N/A	2.7 U	2.8 U	N/A	**1.3 J**	**1.5 J**
Thallium	mg/kg	12	**3.1 J**	N/A	**6.4 J-**	9.2 U	N/A	9.1 UJ	**4.2 J-**
Vanadium	mg/kg	5,800	**3,610**	N/A	**298**	**32.8**	N/A	**163**	**145**
Zinc	mg/kg	350,000	**138**	N/A	**123**	**244**	N/A	**517**	**610**
Other									
Cyanide	mg/kg	150	**2.1**	N/A	**1.8 J-**	**1 J**	N/A	**1.5 J-**	**1.7 J-**

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Table 6 - Parcel B11
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B11-028-SB-1* 8/10/2020	B11-028-SB-7.5* 8/10/2020	B11-029-SB-1* 8/10/2020	B11-029-SB-5* 8/10/2020	B11-030-SB-1* 8/10/2020	B11-030-SB-5* 8/10/2020	B11-031-SB-1* 8/10/2020
Metals									
Aluminum	mg/kg	1,100,000	**6,800**	**15,500**	**6,810**	**3,890**	**6,690**	**4,260**	**13,000**
Antimony	mg/kg	470	3.1 U	3.1 U	2.9 U	3.1 U	2.8 U	3 U	3.1 U
Arsenic	mg/kg	3	2.6 U	2.6 U	2.4 U	2.6 U	2.3 U	2.5 U	2.6 U
Barium	mg/kg	220,000	**65.7**	**137**	**79.6**	**42.2**	**69.8**	**60.3**	**41.8**
Beryllium	mg/kg	2,300	**0.68 J**	**1.3**	**0.39 J**	**0.25 J**	**0.46 J**	**0.37 J**	**0.52 J**
Cadmium	mg/kg	980	**0.8 J**	**0.82 J**	**0.69 J**	**0.52 J**	**0.74 J**	**0.78 J**	**1.1 J**
Chromium	mg/kg	120,000	**1,500**	**988**	**883**	**761**	**837**	**561**	**756**
Chromium VI	mg/kg	6.3	**0.85 J**	**0.83 J**	**0.73 J**	**1.2**	**0.71 J**	**0.93 J**	**0.73 J**
Cobalt	mg/kg	350	5.1 U	**5.9**	**3 J**	5.2 U	**4.8**	**2.1 J**	**3.7 J**
Copper	mg/kg	47,000	**28.5**	**62.5**	**46.9**	**24.5**	**45.8**	**29.8**	**35.8**
Iron	mg/kg	820,000	**187,000**	**130,000**	**199,000**	**169,000**	**182,000**	**198,000**	**125,000**
Lead	mg/kg	800	**14**	**44.1**	**32.3**	**4.3**	**36.4**	**15.5**	**90.8**
Manganese	mg/kg	26,000	**60,200**	**18,100**	**19,400**	**33,200**	**20,400**	**19,800**	**16,200**
Mercury	mg/kg	350	0.1 U	**0.034 J**	**0.061 J**	0.11 U	**0.035 J**	0.1 U	**0.1**
Nickel	mg/kg	22,000	**14.2**	**23.8**	**19.5**	**14.3**	**20.6**	**21.9**	**16.2**
Selenium	mg/kg	5,800	4.1 U	4.1 U	3.9 U	4.2 U	3.7 U	4.1 U	4.1 U
Silver	mg/kg	5,800	3.1 U	3.1 U	2.9 U	3.1 U	2.8 U	3 U	3.1 U
Thallium	mg/kg	12	**35.4**	**12.2**	**16.3**	**23**	**15.1**	**22.8**	**11.1**
Vanadium	mg/kg	5,800	**1,390**	**637**	**988**	**1,130**	**843**	**1,760**	**635**
Zinc	mg/kg	350,000	**139**	**159**	**105**	**66.1**	**213**	**80.9**	**304**
Other									
Cyanide	mg/kg	150	**1.2**	**1.3**	**1.2**	**0.22 J**	**0.68 J**	**0.29 J**	**4.1**

Bold indicates detection
Values in red indicate a detection exceedance of the Project Action Limit (PAL)
N/A: This parameter was not analyzed for this sample.
* Indicates non-validated data

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
UJ: This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
J: The positive result reported for this analyte is a quantitative estimate.
J-: The positive result reported for this analyte is a quantitative estimate but may be biased low.
B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte.

Table 6 - Parcel B11
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B11-031-SB-5*	B11-031-SB-10*	B11-032-SB-1*	B11-032-SB-5*	B11-033-SB-1*	B11-033-SB-7*	B11-033-SB-10
			10/5/2020	10/5/2020	8/10/2020	8/10/2020	8/10/2020	8/10/2020	8/10/2020
Metals									
Aluminum	mg/kg	1,100,000	**12,800**	N/A	**16,700**	**9,940**	**32,000**	**14,400**	N/A
Antimony	mg/kg	470	**9.3**	N/A	3.2 U	3.2 U	3.1 U	3.2 U	N/A
Arsenic	mg/kg	3	**7**	2.1 U	2.7 U	**11.9**	**4.1**	**8.8**	**6.7**
Barium	mg/kg	220,000	**90.4**	N/A	**38.4**	**256**	**79.1**	**100**	N/A
Beryllium	mg/kg	2,300	**0.44 J**	N/A	**0.18 J**	**0.85 J**	**0.54 J**	**1.1 J**	N/A
Cadmium	mg/kg	980	**0.55 J**	N/A	**0.88 J**	**1.9**	**1.1 J**	**1.8**	N/A
Chromium	mg/kg	120,000	**681**	N/A	**1,270**	**590**	**665**	**983**	N/A
Chromium VI	mg/kg	6.3	1 U	N/A	**0.8 J**	1.1 U	**0.78 J**	**0.75 J**	N/A
Cobalt	mg/kg	350	**2.1 J**	N/A	**2.2 J**	**21.8**	**10.6**	**34.4**	N/A
Copper	mg/kg	47,000	**47.2**	N/A	**29.8**	**156**	**71.1**	**126**	N/A
Iron	mg/kg	820,000	**158,000**	N/A	**180,000**	**168,000**	**147,000**	**172,000**	N/A
Lead	mg/kg	800	**24.7**	N/A	**19.3**	**225**	**75.9**	**142**	N/A
Manganese	mg/kg	26,000	**20,200**	N/A	**29,600**	**20,700**	**22,300**	**36,800**	**23,900**
Mercury	mg/kg	350	**0.013 J**	N/A	**0.0095 J**	**0.085 J**	**0.085 J**	**0.56**	N/A
Nickel	mg/kg	22,000	**19.1**	N/A	**13.7**	**115**	**43**	**43.1**	N/A
Selenium	mg/kg	5,800	3.4 U	N/A	4.2 U	4.3 U	4.1 U	4.2 U	N/A
Silver	mg/kg	5,800	2.6 U	N/A	3.2 U	3.2 U	3.1 U	3.2 U	N/A
Thallium	mg/kg	12	8.6 U	N/A	**18.1**	**18.7**	**14.9**	**30.7**	**22.8**
Vanadium	mg/kg	5,800	**659**	N/A	**903**	**1,070**	**723**	**1,790**	N/A
Zinc	mg/kg	350,000	**161**	N/A	**74.2**	**444**	**350**	**484**	N/A
Other									
Cyanide	mg/kg	150	**0.66 J**	N/A	**0.5 J**	**0.7 J**	**2.6**	**2.3**	N/A

Bold indicates detection
Values in red indicate a detection exceedance of the Project Action Limit (PAL)
N/A: This parameter was not analyzed for this sample.
* Indicates non-validated data

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
UJ: This analyte was not detected in the sample. The actual quantitation/detection limit may be higher than reported.
J: The positive result reported for this analyte is a quantitative estimate.
J-: The positive result reported for this analyte is a quantitative estimate but may be biased low.
B: This analyte was not detected substantially above the level of the associated method blank/preparation or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte.

Table 7 - Parcel B11
Summary of Soil PAL Exceedances

Parameter	CAS#	Frequency of Detections (%)*	Frequency of Exceedances (%)*	Sample ID of Max Result	Max Result (mg/kg)	PAL Solid (mg/kg)
Arsenic	7440-38-2	57%	53%	B11-015-SB-5	25.9	3
Benz[a]anthracene	56-55-3	100%	1%	B11-026-SB-1	21	21
Benzo[a]pyrene	50-32-8	100%	17%	B11-026-SB-1	14	2.1
Diesel Range Organics	DRO	100%	3%	B11-026-SB-10	24,500	6,200
Lead	7439-92-1	98%	2%	B11-027-SB-1	1,080	800
Manganese	7439-96-5	100%	25%	B11-011-SB-2	64,800	26,000
Naphthalene	91-20-3	100%	6%	B11-026-SB-9	61	8.6
Oil & Grease	O&G	79%	4%	B11-026-SB-9	24,800	6,200
Thallium	7440-28-0	82%	46%	B11-018-SB-8	85.4	12
Vanadium	7440-62-2	100%	4%	B11-011-SB-2	9,980	5,800

*Frequency of detections and exceedances calculated as a percentage based on the total number of samples analyzed for the parameter (excluding any rejected data results).

Table 8 - Parcel B11
Rejected Analytical Results

Sample ID	Parameter	Result (mg/kg)	PAL (mg/kg)	Exceeds PAL?
B11-004-SB-1	1,4-Dioxane	0.086	24	no
	2,3,4,6-Tetrachlorophenol	0.073	25,000	no
	2,4,5-Trichlorophenol	0.18	82,000	no
	2,4,6-Trichlorophenol	0.073	210	no
	2,4-Dichlorophenol	0.073	2,500	no
	2,4-Dimethylphenol	0.073	16,000	no
	2,4-Dinitrophenol	0.18	1,600	no
	2-Chlorophenol	0.073	5,800	no
	2-Methylphenol	0.073	41,000	no
	3&4-Methylphenol(m&p Cresol)	0.15	41,000	no
	Pentachlorophenol	0.18	4	no
	Phenol	0.073	250,000	no
B11-004-SB-4	1,4-Dioxane	0.092	24	no
B11-006-SB-3	2,3,4,6-Tetrachlorophenol	0.073	25,000	no
	2,4-Dinitrophenol	0.18	1,600	no
	Pentachlorophenol	0.18	4	no
B11-006-SB-7	1,4-Dioxane	0.1	24	no
	2,3,4,6-Tetrachlorophenol	0.074	25,000	no
	2,4,5-Trichlorophenol	0.18	82,000	no
	2,4,6-Trichlorophenol	0.074	210	no
	2,4-Dichlorophenol	0.074	2,500	no
	2,4-Dimethylphenol	0.074	16,000	no
	2,4-Dinitrophenol	0.18	1,600	no
	2-Chlorophenol	0.074	5,800	no
	2-Methylphenol	0.074	41,000	no
	3&4-Methylphenol(m&p Cresol)	0.15	41,000	no
	Pentachlorophenol	0.18	4	no
	Phenol	0.074	250,000	no
B11-007-SB-1	Chromium VI	1.1	6.3	no
B11-007-SB-5	2,3,4,6-Tetrachlorophenol	0.074	25,000	no
	2,4,5-Trichlorophenol	0.19	82,000	no
	2,4,6-Trichlorophenol	0.074	210	no
	2,4-Dichlorophenol	0.074	2,500	no
	2,4-Dimethylphenol	0.074	16,000	no
	2,4-Dinitrophenol	0.19	1,600	no
	2-Chlorophenol	0.074	5,800	no
	2-Methylphenol	0.074	41,000	no
	3&4-Methylphenol(m&p Cresol)	0.15	41,000	no
	Chromium VI	1.2	6.3	no
	Pentachlorophenol	0.19	4	no
	Phenol	0.074	250,000	no

Table 8 - Parcel B11
Rejected Analytical Results

Sample ID	Parameter	Result (mg/kg)	PAL (mg/kg)	Exceeds PAL?
B11-017-SB-1	2,3,4,6-Tetrachlorophenol	0.07	25,000	no
	2,4,5-Trichlorophenol	0.17	82,000	no
	2,4,6-Trichlorophenol	0.07	210	no
	2,4-Dichlorophenol	0.07	2,500	no
	2,4-Dimethylphenol	0.07	16,000	no
	2,4-Dinitrophenol	0.17	1,600	no
	2-Chlorophenol	0.07	5,800	no
	2-Methylphenol	0.07	41,000	no
	3&4-Methylphenol(m&p Cresol)	0.14	41,000	no
	Pentachlorophenol	0.17	4	no
	Phenol	0.07	250,000	no
B11-017-SB-5	2,4-Dinitrophenol	0.17	1,600	no
B11-020-SB-4.5	2,3,4,6-Tetrachlorophenol	0.075	25,000	no
	2,4,5-Trichlorophenol	0.19	82,000	no
	2,4,6-Trichlorophenol	0.075	210	no
	2,4-Dichlorophenol	0.075	2,500	no
	2,4-Dimethylphenol	0.075	16,000	no
	2,4-Dinitrophenol	0.19	1,600	no
	2-Chlorophenol	0.075	5,800	no
	2-Methylphenol	0.075	41,000	no
	3&4-Methylphenol(m&p Cresol)	0.15	41,000	no
	Pentachlorophenol	0.19	4	no
	Phenol	0.075	250,000	no
B11-023-SB-1	2,3,4,6-Tetrachlorophenol	0.072	25,000	no
	2,4,5-Trichlorophenol	0.18	82,000	no
	2,4,6-Trichlorophenol	0.072	210	no
	2,4-Dichlorophenol	0.072	2,500	no
	2,4-Dimethylphenol	0.072	16,000	no
	2,4-Dinitrophenol	0.18	1,600	no
	2-Chlorophenol	0.072	5,800	no
	2-Methylphenol	0.072	41,000	no
	Pentachlorophenol	0.18	4	no
B11-026-SB-1	2,3,4,6-Tetrachlorophenol	0.073	25,000	no
	2,4-Dinitrophenol	0.18	1,600	no
	Chromium VI	1.1	6.3	no
	Pentachlorophenol	0.18	4	no
B11-027-SB-1	Chromium VI	1.2	6.3	no

APPENDIX A

Parcel B11 Sampling Plan Summary
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

Table 1 - Soil Sampling Summary

Source Area/ Description	REC & Finding/ SWMU/ AOC	Figure or Drawing of Reference	Rationale	Number of Locations	Sample Locations	Boring Depth	Sample Depth	Analytical Parameters: Soil Samples
Transformer Pad	N/A	Drawing 5102	Investigate potential impacts related to tranformer pad (potential leaks or releases).	2	B11-001 and B11-002	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Scrap Reclaiming Pit	N/A	Drawing 5002, Drawing 5102, and Drawing 5502	Investigate potential impacts related to historical scrap reclamation activities.	5	B11-003 through B11-007	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Scrap Screening Station	N/A	Drawing 5002, Drawing 5102, and Drawing 5502	Investigate potential impacts related to historical scrap screening activities.	2	B11-008 and B11-009	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Site-Wide/ Material Stockpiles	N/A	Aerial Imagery and Site Visit	Investigate potential impacts related to current material stockpiling activities.	16	B11-010 through B11-025	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
Site-Wide/ Dredge Material Containment Facility Perimeter	N/A	Drawing 5002, Drawing 5102, Drawing 5502, and Aerial Imagery	Investigate potential impacts related to historical mud/dredge disposal activities.	8	B11-026 through B11-033	Total depth of 20 feet or groundwater.	0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening.	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs (0-1')
			Total:	33				

Soil Borings Sampling Density Requirements (from **Worksheet 17 - Sampling Design and Rationale**)
No Engineered Barrier (41-70 acres): 1 boring per 2 acres with no less than 27 borings.
Mud Storage Impoundment: 27.9 acres (excluded from sampling density calculations)
Engineered Barrier (N/A)
No Engineered Barrier (64.2 acres) = **33 Borings Required, 33 Completed**

VOCs - Volatile Organic Compounds (Target Compound List)
^VOCs are only collected if the PID reading exceeds 10 ppm
SVOCs - Semivolatile Organic Compounds (Target Compound List)
Metals - (Target Analyte List plus Hexavalent Chromium and Cyanide)
O&G - Oil & Grease
DRO/GRO - Diesel Range Organics/Gasoline Range Organics
PCBs - Polychlorinated Biphenyls
bgs - Below Ground Surface

APPENDIX B

ARM Group LLC
Engineers and Scientists

Boring ID: B11-001-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/13/2020
Weather	: Rainy, 90's
Northing (US ft)	: 560638.51
Easting (US ft)	: 1457938.51

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	90	0.0	B11-001-SB-1	(0-7.5') Non-native SAND with some SLAG GRAVEL, medium dense, very dark brown, dry then wet at 7.4' bgs, non-plastic, non-cohesive	SW/GW	
2		0.0				
3		0.0				
4		0.0				
5		0.0	B11-001-SB-5			
6	82	-				
7		0.0				Wet at 7.4' bgs
8		0.0		(7.5-10') SLAG, SAND and GRAVEL-sized with non-native SAND, medium dense to dense, very dark brown, wet, non-plastic, non-cohesive	GW/SW	
9		21.2				
10		1.3		End of Boring		
11						

Total Borehole Depth: 10' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B11-002-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/13/2020
Weather	: Rainy, 90's
Northing (US ft)	: 560645.39
Easting (US ft)	: 1457965.70

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	92	0.2	B11-002-SB-1	(0-10') SLAG, SAND and GRAVEL-sized with non-native SAND, medium dense, very dark brown and gray with trace yellow and white, dry, non-plastic, non-cohesive	GW/SW	
2		1.5				
3		11.5				
4		0.0				
5		0.0	B11-002-SB-5			
6	80	-				
7		0.0				
8		0.0				
9		5.7				Wet at 9' bgs
10		0.0		End of Boring		
11						

Total Borehole Depth: 10' bgs due to water.

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ARM Group LLC
Engineers and Scientists

Boring ID: B11-003-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/11/2020
Weather	: Sunny, 100's
Northing (US ft)	: 560758.83
Easting (US ft)	: 1456905.72

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	86	0.0	B11-003-SB-1	(0-10') Non-native SAND with SLAG/BRICK GRAVEL and trace SILT, loose to medium dense, brown to grayish brown with trace gray and red, dry then wet at 8.5' bgs, non-plastic, non-cohesive	SW/GW	
2		0.0				
3		0.0				
4		0.2				
5		0.0	B11-003-SB-5			
6	80	-				
7		0.0				
8		1.6				
9		0.0				Wet at 8.5' bgs
10		0.0				
11				End of Boring		

Total Borehole Depth: 10' bgs due to water.

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ARM Group LLC
Engineers and Scientists

Boring ID: B11-004-SB

Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/11/2020
Weather	: Sunny, 100's
Northing (US ft)	: 560826.90
Easting (US ft)	: 1457102.84

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	92	1206	B11-004-SB-1	(0-2.5') Non-native SAND and SLAG, SAND and GRAVEL-sized, medium dense, brown and grayish brown, dry, non-plastic, non-cohesive	SW/GW	
2		1007				
3		15.2		(2.5-4.2') Non-native SAND with CLAY and trace BRICK/SLAG GRAVEL, medium dense, pale brown and brown, dry, non-plastic, non-cohesive	SW-SC	
4		318.9	B11-004-SB-4			
5		2820		(4.2-5.1') ASPHALT	NA	
6	71	353.3		(5.1-8.5') Non-native SAND and SLAG, SAND and GRAVEL-sized, medium dense, brown and gray, dry, non-plastic, non-cohesive	SW/GW	
7		61.0				
8		0.3				
9		0.0		(8.5-9.5') Non-native SAND, BRICK, SAND-sized, and GRAVEL, loose to medium dense, strong brown to brown, wet, non-plastic, non-cohesive	SW/GW	Wet at 8.5' bgs
10		0.0		End of Boring		

Total Borehole Depth: 9.5' bgs due to water and refusal.

ARM Group LLC
Engineers and Scientists

Boring ID: B11-005-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI/Connelly
Driller	: D. Marchese; R. Mohler
Drilling Equipment	: Geoprobe 7822DT/Sonic

Date	: 08/13/2020; 10/07/2020
Weather	: Rainy, 90's;
Northing (US ft)	: 561161.73
Easting (US ft)	: 1457321.45

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
0	90	0.0		(0-0.6') SAND with SILT and trace SLAG GRAVEL, loose, dark brown, dry, non-plastic, non-cohesive	SW-SM	1' bgs is starting 0' elevation due to slag removal
1		0.0	B11-005-SB-2	(0.6-1.2') Non-native SILTY SAND, very fine to fine, medium dense, pale brown, dry, non-plastic, non-cohesive	SM	
2		116.0		(1.2-3') Non-native SAND with SLAG/BRICK GRAVEL and trace SILT, loose to medium dense, brown to grayish brown with trace gray and red, dry then wet at 8.5' bgs, non-plastic, non-cohesive	SW/GW	
3		240.9		(3-10') Non native SAND and SLAG, SAND and GRAVEL-sized, medium dense, dark brown and light brownish gray with trace yellow, dry, non-plastic, non-cohesive, trace BRICK and some SILT		
4		273.6	B11-005-SB-5			
5	100	12.4				
6		80.9			SW/GW	
7		82.8				
8		45.8				
9		114.3				
10	100	-		(10-15') SLAG, SAND and GRAVEL-sized, loose, dark brown, wet, non-plastic, non-cohesive		Wet at 10' bgs
11		-				
12		-			GW/SW	
13		-				
14		-				
15				End of Boring		
16						

Total Borehole Depth: 15' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B11-006-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/17/2020
Weather	: Sunny, 80's
Northing (US ft)	: 561108.81
Easting (US ft)	: 1457494.83

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	96	3.9		(0-15') Non-native SAND, very fine to medium, with some SLAG GRAVEL, SILT, and BRICK, SAND and GRAVEL-sized, medium dense, dark brown to brown with some pale brown 0-3' bgs, dry then wet at 13' bgs, non-plastic, non-cohesive, fine metallic grains throughout	SW/GW	2' bgs is starting 0' elevation due to slag removal
2		48.8				
3		2.3	B11-006-SB-3			
4		27.0				
5		5.4				
6	90	-				
7		20.8	B11-006-SB-7			
8		4.1				
9		1.5				
10		12.1				
11	90	-				
12		0.8	B11-006-SB-12			
13		1.0				Wet at 13' bgs
14		1.3				
15		1.5				
16				End of Boring		

Total Borehole Depth: 15' bgs due to water.

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Boring ID: B11-007-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/18/2020
Weather	: Sunny, 80's
Northing (US ft)	: 561428.89
Easting (US ft)	: 1457773.72

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	80	-	B11-007-SB-1	(0-7') Non-native SAND and SLAG, SAND and GRAVEL-sized, medium dense, dark brown with dark gray, dry then moist at 6.8' bgs, non-plastic, non-cohesive, trace metallic luster at 3' bgs	SW/GW	No water encountered
2		7.5				
3		0.0				
4		0.0				
5		0.0	B11-007-SB-5			
6	80	-				
7		0.2		End of Boring		
8						

Total Borehole Depth: 7' bgs due to refusals.

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Boring ID: B11-008-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/18/2020
Weather	: Sunny, 80's
Northing (US ft)	: 561058.42
Easting (US ft)	: 1456418.68

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.0		(0-6') Non-native SAND with some fine SLAG GRAVEL, medium dense to loose, dark brown with dark gray and trace yellow, dry, non-plastic, non-cohesive, trace BRICK at 4.5' bgs, large piece of WOOD at 1' bgs		1' bgs is starting 0' elevation due to slag removal
1		0.0	B11-008-SB-2			
2	92	0.0				
3		1.7			SW/GP	No water encountered
4		0.3				
5	100	0.0	B11-008-SB-6			
6				End of Boring		
7						

Total Borehole Depth: 6' bgs due to refusals.

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Boring ID: B11-009-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Connelly
Driller	: R. Mohler
Drilling Equipment	: Sonic

Date	: 10/07/2020
Weather	: Sunny 70's
Northing (US ft)	: 561268.86
Easting (US ft)	: 1457081.50

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	80	-		(0-10') Non-native SAND with SILT and SLAG GRAVEL, fine to coarse, dense to medium dense, very dark brown with light gray, dry, non-plastic, non-cohesive,	SW/GW	3' bgs is starting 0' elevation due to slag removal
2		4.5				
3		19.0				
4		14.0	B11-009-SB-4			
5		36.4				
6	100	5.9				
7		19.4				
8		23.3	B11-009-SB-8			
9		17.0				
10		22.2				Wet at 10' bgs
11	100	0.8		(10-15') SLAG, SAND and GRAVEL-sized, medium dense, dark brown to very dark brown, wet, non-plastic, non-cohesive, WOOD fragments at 12' bgs	SW/GW	
12		18.7				
13		20.9				
14		-				
15		-		End of Boring		
16						

Total Borehole Depth: 15' bgs due to water.

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Boring ID: B11-010-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Connelly
Driller	: R. Mohler
Drilling Equipment	: Sonic

Date	: 10/07/2020
Weather	: Sunny 70's
Northing (US ft)	: 561300.38
Easting (US ft)	: 1457220.67

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	60	-		(0-1') Non-native SAND, very fine to medium, with some SLAG GRAVEL, fine, loose to medium dense, brown, dry, non-plastic, non-cohesive,	SW/GP	1' bgs is starting 0' elevation due to slag removal
2		-	B11-010-SB-2	(1-10') Non-native SAND with SILT and SLAG, SAND and GRAVEL-sized, medium dense, dark brown then grayish brown with light gray at 4' bgs, dry, non-plastic, non-cohesive, some WOOD fragments at 8' bgs		
3		3.2				
4		27.7				
5		72.7				
6	100	354.4	B11-010-SB-6		SW/GW	
7		147.8				
8		52.8				
9		56.0				
10		87.7				Wet at 10' bgs
11	100	36.4		(10-15') SLAG/FILL, SAND and GRAVEL-sized, loose, dark brown with trace yellow, wet, non-plastic, non-cohesive		
12		36.2				
13		85.6			SW/GW	
14		179.8				
15		155.3				
16				End of Boring		

Total Borehole Depth: 15' bgs due to water.

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Boring ID: B11-011-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Connelly
Driller	: R. Mohler
Drilling Equipment	: Sonic

Date	: 10/07/2020
Weather	: Sunny 80's
Northing (US ft)	: 561389.45
Easting (US ft)	: 1457293.85

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	100	0.7		(0-11') Non-native SAND, very fine to medium, with SILT and some SLAG GRAVEL, fine to coarse, medium dense, very dark gray to black, dry then wet at 10.5' bgs, non-plastic, non-cohesive	SW-SM	1' bgs is starting 0' elevation due to slag removal
2		13.0	B11-011-SB-2			
3		4.0				
4		0.5				
5		26.8				
6	80	-				
7		4.3				
8		8.3				
9		37.0	B11-011-SB-9			
10		36.6				
11	100	2.9				Wet at 10.5' bgs
12		4.3		(11-15') SLAG, SAND and GRAVEL-sized, with some SILT, loose, dark brownish gray, wet, non-plastic, non-cohesive, gravel amount increases with depth	SW/GW	
13		9.0				
14		55.9				
15		5.6		End of Boring		
16						

Total Borehole Depth: 15' bgs due to water.

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Boring ID: B11-012-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Connelly
Driller	: R. Mohler
Drilling Equipment	: Sonic

Date	: 10/07/2020-10/08/2020
Weather	: Sunny 80's
Northing (US ft)	: 561141.59
Easting (US ft)	: 1456852.11

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	100	59.7		(0-3') Non-native SAND with SILT and SLAG GRAVEL, medium dense, dark brown, dry, non-plastic, non-cohesive	SW/GW	1' bgs is starting 0' elevation due to slag removal
1		80.1	B11-012-SB-2			
2		382.8				
3		1201		(3-12') SLAG, SAND and GRAVEL-sized, with some non-native SAND, loose to medium dense, light gray, dark brown, and grayish brown, then brown to dark brown at 10' bgs, dry then wet at 10' bgs, non-plastic, non-cohesive		
4		82.0				
5	100	57.8				
6		50.7				
7		207.0	B11-012-SB-8		SW/GW	
8		76.8				
9		152.8				
10		26.4				Wet at 10' bgs
11		171.9				
12	100	226.4		(12-15') SLAG, SAND snd GRAVEL-sized, loose, dark brown, wet, non-plastic, non-cohesive		
13		228.1			SW/GW	
14		189.6				
15				End of Boring		
16						

Total Borehole Depth: 15' bgs due to water.

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Boring ID: B11-013-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI/Connelly
Driller	: D. Marchese/R. Mohler
Drilling Equipment	: Geoprobe 7822DT/Sonic

Date	: 08/11/2020; 10/05/2020
Weather	: Sunny, 100's; Sunny 70's
Northing (US ft)	: 561257.73
Easting (US ft)	: 1456317.15

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
0	100	7.3	B11-013-SB-1	(0-0.4') SILTY SAND with GRAVEL, loose, dark brown, dry, non-plastic, non-cohesive	SM	Light amount of organics
1		7.5		(0.4-2') Non-native SAND and SLAG GRAVEL, medium dense, dark brown with trace black and gray, dry, non-plastic, non-cohesive, metallic grains throughout	SW/GW	
2		13.8		(2-10') Non-native SAND with SLAG GRAVEL, fine to coarse, medium dense to dense, dark brown, dry then moist at 4.5-5' bgs then dry, non-plastic, non-cohesive, trace SILT		
3		33.6	B11-013-SB-4			
4		6.5				
5	100	3.1			SW/GW	
6		5.3				
7		5.6				
8		7.9				
9		14.9	B11-013-SB-10			
10	100	11.1		(10-15') SLAG, SAND and GRAVEL-sized, medium dense, grayish brown to brownish gray, wet, non-plastic, non-cohesive		Wet at 10' bgs
11		14.4				
12		3.8			SW/GW	
13		12.7				
14		27.3				
15				End of Boring		
16						

Total Borehole Depth: 15' bgs due to water.

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Boring ID: B11-014-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/11/2020
Weather	: Sunny, 100's
Northing (US ft)	: 560923.66
Easting (US ft)	: 1456584.73

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	84	-	B11-014-SB-1	(0-9.8') Non-native SAND with SLAG/BRICK GRAVEL, medium dense to dense, brown and red with some yellow, dry then wet at 9.8' bgs, non-plastic, non-cohesive	SW/GW	
2		0.0				
3		0.0				
4		0.3				
5		1.1	B11-014-SB-5			
6	80	-				
7		4.8				
8		1.5				
9		0.1				
10	100	0.3		(9.8-11') Non-native SAND and GRAVEL with SILT, medium dense, red, wet, non-plastic, non-cohesive	SW/GW	Wet at 9.8' bgs
11		-		End of Boring		
12						

Total Borehole Depth: 11' bgs due to refusals and water.

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Boring ID: B11-015-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/13/2020
Weather	: Sunny, 90's
Northing (US ft)	: 561029.27
Easting (US ft)	: 1457844.21

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		-	B11-015-SB-1	(0-2.2') SLAG, SAND and GRAVEL, medium dense, brown to dark brown, dry, non-plastic, non-cohesive	SW/GW	
1						
		0.1				
2						
	86	56.9		(2.2-5') Non-native SILTY SAND with trace GRAVEL, medium dense, very dark brown and very dark gray, dry, non-plastic, non-cohesive, metallic grains throughout	SM	No water encountered
3						
		0.0				
4						
		0.0	B11-015-SB-5			
5				End of Boring		
6						

Total Borehole Depth: 5' bgs due to refusals.

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Boring ID: B11-016-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI/Connelly
Driller	: D. Marchese/R. Mohler
Drilling Equipment	: Geoprobe 7822DT/Sonic

Date	: 08/11/2020; 10/06/2020
Weather	: Sunny, 100's; Sunny 70's
Northing (US ft)	: 560626.42
Easting (US ft)	: 1456780.22

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	100	0.0	B11-016-SB-1	(0-1') Non-native SAND with some SLAG GRAVEL, loose to medium dense, brown to dark brown, dry, non-plastic, non-cohesive, trace SILT at surface, metallic grains throughout	SW/GW	
2		67.1		(1-10') Non-native SAND, very fine to medium, with some SLAG GRAVEL, fine to coarse, grayish brown with some light gray, dry, non-plastic, non-cohesive		
3		97.6				
4		391.4	B11-016-SB-4			
5		317.2				
6	100	15.4			SW/GW	
7		35.5				
8		56.0				
9		13.5				
10		50.1	B11-016-SB-10			Wet at 10' bgs
11	100	2.8		(10-15') SLAG/FILL, SAND and GRAVEL-sized, with some SILT, loose to medium dense, very dark brown with trace gray and yellow, wet, non-plastic, non-cohesive	GW/SW	
12		2.8				
13		25.2				
14		29.7				
15		25.6				
16				End of Boring		

Total Borehole Depth: 15' bgs due to water.

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Boring ID: B11-017-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/11/2020
Weather	: Sunny, 100's
Northing (US ft)	: 560654.34
Easting (US ft)	: 1457119.36

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	86	-	B11-017-SB-1	(0-5.4') Non-native SAND, very fine to fine, with trace SLAG GRAVEL and some SILT, medium dense, brown grading to very dark brown, dry, non-plastic, non-cohesive, metallic grains throughout	SW	
2		0.0				
3		0.0				
4		0.0				
5		0.0	B11-017-SB-5			
6	84	-		(5.4-10') SLAG, SAND and GRAVEL-sized, and non-native SAND, medium dense, brown, dark brown, and gray with some yellow and trace red, dry then wet at 9.2' bgs, non-plastic, non-cohesive, some BRICK at 9' bgs	SW/GW	
7		0.0				
8		0.0				
9		0.1				Wet at 9.2' bgs
10		0.1		End of Boring		
11						

Total Borehole Depth: 10' bgs due to water.

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Boring ID: B11-018-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/12/2020
Weather	: Cloudy, 90's
Northing (US ft)	: 560744.71
Easting (US ft)	: 1457593.02

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1		-	B11-018-SB-1	(0-11') Non-native SAND and SLAG/BRICK, SAND and GRAVEL-sized with trace CLAY at 6.5' bgs, medium dense, brown and grayish brown then dark brown with yellow at 6' bgs, dry, non-plastic, non-cohesive		
2		0.1				
3	92	0.1				
4		0.1				
5		0.1				
6		7.3			SW/GW	
7		0.8				
8	100	22.8	B11-018-SB-8			
9		1.7				
10		0.3	B11-018-SB-10			
11	100	0.3				Wet at 10.4' bgs
12				End of Boring		

Total Borehole Depth: 11' bgs due to water.

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Boring ID: B11-019-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/12/2020
Weather	: Cloudy, 90's
Northing (US ft)	: 560883.77
Easting (US ft)	: 1458063.46

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	86	-	B11-019-SB-1	(0-6.2') Non-native SAND with SLAG/BRICK GRAVEL and with some from SILT 0-0.5' bgs, medium dense, brown to dark brown with trace yellow at 6' bgs, dry, non-plastic, non-cohesive	SW/GW	
2		1.7				
3		9.3				
4		3.6				
5		5.7	B11-019-SB-5			
6	82	-		(6.2-10') SLAG/BRICK, SAND and GRAVEL-sized, medium dense to dense, dark brown with trace gray and yellow, dry then wet at 7.5' bgs, non-plastic, non-cohesive	SW/GW	Wet at 7.5' bgs
7		0.9				
8		3.0				
9		1.6				
10		0.3		End of Boring		
11						

Total Borehole Depth: 10' bgs due to water.

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Boring ID: B11-020-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/11/2020
Weather	: Cloudy, 100's
Northing (US ft)	: 560427.18
Easting (US ft)	: 1457357.33

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0	89	0.1	B11-020-SB-1	(0-4.5') Non-native SAND, very fine to medium, with some fine SLAG GRAVEL, medium dense, grayish brown and gray, dry, non-plastic, non-cohesive,	SW/GP	No water encountered
1		0.1				
2		1.1				
3		0.0				
4		0.0	B11-020-SB-4.5			
5				End of Boring		

Total Borehole Depth: 4.5' bgs due to refusals.

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Boring ID: B11-021-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/12/2020
Weather	: Cloudy, 100's
Northing (US ft)	: 560269.88
Easting (US ft)	: 1457712.78

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1		-	B11-021-SB-1	(0-3.5') Non-native SAND with some SLAG/BRICK GRAVEL, fine to coarse, and some SILT, medium dense, dark brown with trace gray and yellow, dry, non-plastic, non-cohesive		
2		-			SW/GW	
3	70	423.1				
4		399.4	B11-021-SB-4	(3.5-10') SLAG/BRICK GRAVEL, fine to coarse, medium dense to dense, dark brown to dark gray, wet, non-plastic, non-cohesive		Wet at 4' bgs
5		157.7				
6		-				
7	82	16.6			GW	
8		3.9				
9		25.9				
10		44.7		End of Boring		
11						

Total Borehole Depth: 10' bgs due to water.

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Boring ID: B11-022-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/12/2020
Weather	: Sunny, 90's
Northing (US ft)	: 560379.57
Easting (US ft)	: 1458027.40

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	82	-	B11-022-SB-1	(0-6.5') Non-native SAND and SLAG, SAND and GRAVEL-sized, medium dense, dark brown, dry then moist at 6.5' bgs, non-plastic, non-cohesive	SW/GW	
2		369.7				
3		1.0				
4		0.5				
5		20.1	B11-022-SB-5			
6		12.5				
7	84	2.0		(6.5-10') SLAG, SAND and GRAVEL-sized, with non-native SAND, medium dense to dense, dark brown to very dark brown, wet at 7' bgs, non-plastic, non-cohesive	SW/GW	Wet at 7' bgs
8		1.7				
9		0.7				
10		0.7		End of Boring		
11						

Total Borehole Depth: 10' bgs due to water.

12-21-2020 \\mdfs01\Projects\EnviroAnalytics Group\20010211 EAG Parcel B11\Boring Logs\2_bor Logs\B11-022-SB.bor

ARM Group LLC
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Boring ID: B11-023-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/18/2020
Weather	: Sunny, 80's
Northing (US ft)	: 559846.34
Easting (US ft)	: 1457178.30

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	92	-	B11-023-SB-1	(0-6.8') Non-native SAND with SLAG/BRICK GRAVEL, medium dense, brown with trace gray and yellow, dry, non-plastic, non-cohesive	SW/GW	
2		0.3				
3		0.3				
4		0.4				
5		0.2	B11-023-SB-5			
6	90	-				
7		0.3		(6.8-10') SLAG and non-native GRAVEL, fine to coarse, with some SLAG, SAND-sized and trace SILT, medium dense, dark brown, moist then wet at 8' bgs, non-plastic, non-cohesive	GW/SW	Wet at 8' bgs
8		0.1				
9		0.4				
10		0.9		End of Boring		
11						

Total Borehole Depth: 10' bgs due to water.

ARM Group LLC
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Boring ID: B11-024-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI/Connelly
Driller	: Don Marchese/R. Mohler
Drilling Equipment	: Geoprobe 7822DT/Sonic

Date	: 08/12/2020; 10/19/2020
Weather	: Sunny, 90's; Overcast 60's
Northing (US ft)	: 560045.43
Easting (US ft)	: 1457893.25

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	100	0.3	B11-024-SB-1	(0-0.8') Non-native SAND with SLAG GRAVEL and some SILT dense, loose to medium dense, brown, dry, non-plastic, non-cohesive	SW/GW	
2		1.4		(0.8-2.7') SAND, fine to coarse, yellow, dry, non-plastic, non-cohesive	SW	
3		2.9		(2.7-3') Non-native SAND and SLAG GRAVEL, dark brown, dry, non-plastic, non-cohesive	SW/GW	
4		14.3		(3-7') SLAG, SAND and GRAVEL-sized, with SILT, loose, black, dry, non-plastic, non-cohesive, lens of clay 6.5-6.7' bgs		
5		11.0	B11-024-SB-5		SW/GW	
6	100	4.8				
7		0.0				
8		0.0		(7-8') CLAY with SILT, firm, black, moist, low plasticity, cohesive	CL	
9		0.0		(8-15') SLAG, SAND and GRAVEL-sized, with SILT, grading to GRAVEL, brownish black grading to gray, loose, moist then wet at 9' bgs, non-plastic, non-cohesive		Wet at 9' bgs
10		2.7				
11	100	0.0				
12		0.0			SW/GW	
13		8.3				
14		23.5				
15		-				
16				End of Boring		

Total Borehole Depth: 15' bgs due to water.

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Boring ID: B11-025-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: Don Marchese; R. Mohler
Drilling Equipment	: Geoprobe 7822DT; Sonic

Date	: 08/12/2020; 10/6/2020
Weather	: Sunny, 90's
Northing (US ft)	: 561213.08
Easting (US ft)	: 1458079.53

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1		384.4	B11-025-SB-1	(0-0.5) SILTY SAND with trace SLAG GRAVEL, loose to medium dense, very dark brown, dry, non-plastic, non-cohesive	SM	
2		349.0		(0.5-10') Non-native SAND and SLAG, SAND and GRAVEL-sized, medium dense, light grayish brown then dark brown at 1.5' bgs, dry then very moist at 9' bgs, non-plastic, non-cohesive		
3	100	9.0				
4		11.8	B11-025-SB-4			
5		8.7				
6		3.4			SW/GW	
7		9.2				
8	100	3.7				
9		7.2				
10		17.5	B11-025-SB-10			Wet at 10' bgs
11		2.3		(10-11') FILL GRAVEL, loose, dark grayish brown, wet, non-plastic, non-cohesive, angular	GW	
12		3.6		(11-15') FILL, SAND-sized, medium to very coarse, and GRAVEL-sized, fine to coarse, loose to medium dense, very dark brown with some yellow, wet, non-plastic, non-cohesive, gravel size and quantity decreases with depth		
13	100	6.7			SW/GP	
14		1.0				
15		3.0		End of Boring		
16						

Total Borehole Depth: 15' bgs due to water.

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Boring ID: B11-026-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin/ J. Barna
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI/Connelly
Driller	: A. Berenbrok-Niblett/ R. Mohler
Drilling Equipment	: Geoprobe 7822DT/ Sonic

Date	: 08/18/2020; 10/19/2020
Weather	: Sunny, 80's
Northing (US ft)	: 560859.08
Easting (US ft)	: 1456102.47

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	100	1.0	B11-026-SB-1	(0-2.5) SLAG, SAND and GRAVEL-sized, with non-native SAND, medium dense to dense, grayish brown with light gray, very moist grading to dry, non-plastic, non-cohesive	SW/GW	
2		0.6				
3		59.6		(2.5-8') SLAG, SAND and GRAVEL-sized, with some SILT, loose, black, dry, no plasticity, no cohesion		
4		32.5				Trace wood at 4' bgs
5		58.1			SW/GW	
6	100	50.9				
7		57.4				
8		144.1				
9		402.9	B11-026-SB-9	(8-10') SILTY CLAY, hard, black, dry, low plasticity, cohesive	CL	
10		149.8	B11-026-SB-10			
11	100	172.2		(10-21') SLAG, SAND and GRAVEL-sized, with some SILT, loose, black, dry then wet at 14' bgs, no plasticity, no cohesion		
12		155.8				
13		303.8				
14		445.0				Wet at 14' bgs
15		356.5			SW/GW	
16	100	-				Product sheen from 14-21' bgs
17		-				
18		-				
19		-				
20		-				
21	100	-		End of Boring		
22						

Total Borehole Depth: 21' bgs due to product piezometer and water.

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Boring ID: B11-027-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/16/2020
Weather	: Sunny, 80's
Northing (US ft)	: 560698.77
Easting (US ft)	: 1455596.25

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	40	-	B11-027-SB-1	(0-3') Non-native SAND, very fine to medium, and GRAVEL, fine to coarse, with some BRICK, medium dense, brown, very moist, non-plastic, non-cohesive	SW/GW	
2		-				
3		1.2		(3-5') CLAY, very firm, very dark gray, dry to moist, medium plasticity, cohesive	CL	Trace to slight odor from 3-7' bgs
4		2.2	B11-027-SB-5			
5	100	4.8		(5-7') Non-native SAND, very fine to medium, and GRAVEL, fine to coarse, medium dense, very dark brown, wet, non-plastic, non-cohesive	SW/GW	Wet at 6' bgs
6		0.2				
7				End of Boring		
8						

Total Borehole Depth: 7' bgs due to refusal and water.

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Boring ID: B11-028-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: Don Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/10/2020
Weather	: Sunny, 100's
Northing (US ft)	: 560370.02
Easting (US ft)	: 1454875.33

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1		-	B11-028-SB-1	(0-8.2') Non-native SAND, and SLAG, SAND and GRAVEL-sized, medium dense to dense, dark brown and grayish brown, dry then very moist at 7.5' bgs, non-plastic, non-cohesive		
2		-				
3	74	0.1				
4		0.1				
5		0.1			SW/GW	
6		0.4				
7		0.1	B11-028-SB-7.5			
8	100	9.2				Wet at 7.5' bgs
9		0.3		(8.2-10') SILT with some SAND grading to SILT, soft, dark brown then black at 9.5' bgs, very moist, low plasticity, cohesive	ML	Oil-like odor 9-10' bgs
10		0.6		End of Boring		
11						

Total Borehole Depth: 10' bgs due to water.

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Boring ID: B11-029-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: Don Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/10/2020
Weather	: Sunny, 100's
Northing (US ft)	: 560604.55
Easting (US ft)	: 1454606.83

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		-	B11-029-SB-1	(0-0.7') Non-native SAND with SILT and some SLAG GRAVEL, loose, dark brown, dry, non-plastic, non-cohesive	SW	
1				(0.7-8.5') SLAG, SAND and GRAVEL-sized, medium dense, dark grayish brown and grayish brown, dry then wet at 8.4' bgs, non-plastic, non-cohesive		
		0.1				
2						
	86	0.1				
3						
		0.0				
4						
		0.0	B11-029-SB-5		SW/GW	
5						
		0.1				
6						
	100	0.1				
7						
		0.0				
8						
		0.0				Wet at 8.4' bgs
				End of Boring		
9						

Total Borehole Depth: 8.5' bgs due to refusal and water.

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Boring ID: B11-030-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: Don Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/10/2020
Weather	: Sunny, 100's
Northing (US ft)	: 561058.37
Easting (US ft)	: 1454483.47

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	86	-	B11-030-SB-1	(0-4') Non-native SAND with SLAG GRAVEL, very fine to medium, medium dense, brown and gray, dry, non-plastic, non-cohesive	SW/GW	
2		0.0				
3		0.0				
4		0.0				
5	90	0.1	B11-030-SB-5	(4-10') SLAG, SAND and GRAVEL-sized, medium dense to dense, brown to grayish brown with strong brown, dry then moist to very moist at 7.1' bgs then wet at 8' bgs, non-plastic, non-cohesive	SW/GW	
6		0.1				
7		0.1				
8		0.1				Wet at 8' bgs
9		1.0				
10		0.7		End of Boring		
11						

Total Borehole Depth: 10' bgs due to water.

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Boring ID: B11-031-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: Don Marchese; R. Mohler
Drilling Equipment	: Geoprobe 7822DT/Sonic

Date	: 08/10/2020; 10/05/2020
Weather	: Sunny, 100's; Sunny 70's
Northing (US ft)	: 561295.21
Easting (US ft)	: 1454886.46

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	96	0.0	B11-031-SB-1	(0-3') Non-native SAND, very fine to fine, with some SLAG/BRICK GRAVEL, very dark brown with trace yellow and gray, dry, non-plastic, non-cohesive	SW/GW	
2		0.0				
3		0.0				
4		5.4		(3-11') Non-native SAND, fine to coarse, with SLAG/BRICK GRAVEL, fine to coarse, dry then moist 7.5-10' bgs, non-plastic, non-cohesive, with some SILT		
5	50	4.0	B11-031-SB-5			
6		-				
7		-			SW/GW	Very large metallic fragment at 7.5' bgs
8		-				
9		4.7				
10	80	1.0	B11-031-SB-10			
11		-		(11-15') SLAG, SAND and GRAVEL-sized with SILT, dark brown, wet, non-plastic, non-cohesive		Wet at 11' bgs
12		-				
13		-			GW/SW	
14		1.4				
15		9.6		End of Boring		
16						

Total Borehole Depth: 15' bgs due to water.

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Boring ID: B11-032-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: Don Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/10/2020
Weather	: Sunny, 100's
Northing (US ft)	: 561546.41
Easting (US ft)	: 1455364.86

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0	80	0.0	B11-032-SB-1	(0-5') Non-native SAND, fine to coarse, and SLAG GRAVEL with trace SILT, medium dense, brown to grayish brown, dry, non-plastic, non-cohesive	SW/GW	No water encountered
1		0.1				
2		1.2				
3		0.0				
4		0.0	B11-032-SB-5			
5				End of Boring		
6						

Total Borehole Depth: 5' bgs due to refusals.

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Boring ID: B11-033-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010211
Project Description	: Sparrows Point - Parcel B11
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: Don Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 08/10/2020
Weather	: Sunny, 100's
Northing (US ft)	: 561612.90
Easting (US ft)	: 1455539.34

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	80	-	B11-033-SB-1	(0-12') Non-native SAND, very fine to coarse, and SLAG GRAVEL, dark brown and grayish brown with trace white, red, gray, and yellow, dry, non-plastic, non-cohesive	SW/GW	No water encountered
2		0.0				
3		0.0				
4		0.5				
5		0.0				
6	84	-				
7		29.7	B11-033-SB-7			
8		2.8				
9		1.3				
10	100	0.0	B11-033-SB-10			
11		0.0				
12		0.0		End of Boring		
13						

Total Borehole Depth: 12' bgs due to refusals.

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APPENDIX C

Parcel B11 - PID Calibration Log

PROJECT NAME: Area B, Parcel B11 Phase II				**SAMPLER NAME:** L. Perrin/J. Barna			
PROJECT NUMBER: 20010211				**DATE:** August 2020 - October 2020		**PAGE** 1 of 1	
DATE/TIME	SAMPLER INITIALS	PID SERIAL #	FRESH AIR CAL	STANDARD	STANDARD CONCENTRATION	METER READING	COMMENTS
8/10/2020 9:30	LLP	592-916391	0.0	Isobutylene	100 ppm	100.0	-
8/11/2020 8:25	LLP	592-916391	0.0	Isobutylene	100 ppm	100.0	-
8/12/2020 7:50	LLP	592-916391	0.0	Isobutylene	100 ppm	100.3	-
8/13/2020 7:50	LLP	592-916391	0.0	Isobutylene	100 ppm	100.3	-
8/17/2020 8:15	LLP	592-916391	0.0	Isobutylene	100 ppm	100.6	-
8/18/2020 8:30	LLP	592-916391	0.0	Isobutylene	100 ppm	99.9	-
10/5/2020 11:15	LLP	592-916391	0.0	Isobutylene	100 ppm	100.1	-
10/6/2020 8:30	LLP	592-910776	0.0	Isobutylene	100 ppm	100.0	-
10/7/2020 9:00	LLP	592-910776	0.0	Isobutylene	100 ppm	100.1	-
10/8/2020 8:15	LLP	592-910776	0.0	Isobutylene	100 ppm	100.3	-
10/19/2020 8:20	JMB	592-910776	0.0	Isobutylene	100 ppm	98.0	-

APPENDIX D

Parcel B11 - IDW Drum Log

Drum Identification Number	Designation	Activity/Phase	Contents	Open Date
1418-Soil-8/10/20-B11	Non-Haz	Parcel B11 Phase II Investigation	Soil	8/10/2020
1419-Decon Water-8/10/20-B11	Non-Haz	Parcel B11 Phase II Investigation	Water	8/10/2020
1431-Soil-10/5/20-B11/B17	Non-Haz	Parcel B11 Phase II Investigation	Soil	10/5/2020
1432-Soil-10/5/20-B11	Non-Haz	Parcel B11 Phase II Investigation	Soil	10/5/2020
1433-Decon Water-10/5/20-B11/B17/B9	Non-Haz	Parcel B11 Phase II Investigation	Water	10/5/2020
1442-Soil-10/19/2020-B11	Non-Haz	Parcel B11 Phase II Investigation	Soil	10/19/2020
1446-Decon Water-10/19/2020-B20/A15/B11	Non-Haz	Parcel B11 Phase II Investigation	Water	10/19/2020

APPENDIX E

QA/QC Tracking Log

Trip Blank:	Date:	Sample IDs:	
TB 1	8/10/2020	1) B11-033-SB-1	QA/QC for non-PAH Soil Data
		2) B11-033-SB-7	
		3) B11-033-SB-10	
		4) B11-032-SB-1	
		5) B11-032-SB-5	
		6) B11-031-SB-1	
		7) B11-030-SB-1	Duplicate: B11-014-SB-5
		8) B11-030-SB-5	Date: 8/11/2020
		9) B11-029-SB-1	MS/MSD: B11-017-SB-5
		10) B11-029-SB-5	Date: 8/11/2020
		11) B11-028-SB-1	Field Blank:
		12) B11-028-SB-7.5	Date: 8/11/2020
TB 1	8/11/2020	13) B11-014-SB-1	Eq. Blank:
		14) B11-014-SB-5	Date: 8/11/2020
		15) B11-013-SB-1	
		16) B11-016-SB-1	
		17) B11-017-SB-1	
		18) B11-017-SB-5	
		19) B11-004-SB-1	
		20) B11-004-SB-4	

Trip Blank:	Date:	Sample IDs:	
		1) B11-015-SB-5	QA/QC for non-PAH Soil Data
		2) B11-005-SB-2	
TB 1	8/17/2020	3) B11-006-SB-3	
		4) B11-006-SB-7	
		5) B11-006-SB-12	
		6) B11-008-SB-2	
		7) B11-008-SB-6	Duplicate: B11-006-SB-7
TB 1	8/18/2020	8) B11-026-SB-1	Date: 8/17/2020
		9) B11-027-SB-1	MS/MSD: B11-008-SB-6
		10) B11-027-SB-5	Date: 8/17/2020
		11) B11-023-SB-1	Field Blank:
		12) B11-023-SB-5	Date: 8/17/2020
		13) B11-007-SB-1	Eq. Blank:
		14) B11-007-SB-5	Date: 8/17/2020
TB 1	10/5/2020	15) B11-031-SB-5	
		16) B11-031-SB-10	
		17) B11-013-SB-4	
		18) B11-013-SB-10	
TB 1	10/6/2020	19) B11-016-SB-4	
		20) B11-016-SB-10	

		1) B11-003-SB-1	QA/QC for non-PAH Soil Data
		2) B11-003-SB-5	
		3) B11-020-SB-1	
		4) B11-020-SB-4.5	
		5) B11-021-SB-1	
		6) B11-021-SB-4	
		7) B11-018-SB-1	Duplicate: B11-018-SB-8
		8) B11-018-SB-8	Date: 8/12/2020
		9) B11-018-SB-10	MS/MSD: B11-001-SB-5
TB 1	8/12/2020	10) B11-019-SB-1	Date: 8/13/2020
		11) B11-019-SB-5	Field Blank:
		12) B11-022-SB-1	Date: 8/12/2020
		13) B11-022-SB-5	Eq. Blank:
		14) B11-024-SB-1	Date: 8/12/2020
		15) B11-025-SB-1	
		16) B11-001-SB-1	
		17) B11-001-SB-5	
TB1	8/13/2020	18) B11-002-SB-1	
		19) B11-002-SB-5	
		20) B11-015-SB-1	

		1) B11-025-SB-4	QA/QC for non-PAH Soil Data
		2) B11-025-SB-10	
		3) B11-011-SB-2	
		4) B11-011-SB-9	
		5) B11-005-SB-5	
		6) B11-010-SB-2	
		7) B11-010-SB-6	Duplicate: B11-005-SB-5
TB 1	10/7/2020	8) B11-009-SB-4	Date: 10/7/2020
		9) B11-009-SB-8	MS/MSD: B11-026-SB-9
		10) B11-012-SB-2	Date: 10/19/2020
		11) B11-012-SB-8	Field Blank:
		12) B11-026-SB-9	Date: 10/8/2020
TB 1	10/19/2020	13) B11-026-SB-10	Eq. Blank:
		14) B11-024-SB-5	Date: 10/8/2020
		15)	
		16)	
		17)	
		18)	
		19)	
		20)	

Soil samples with a sustained PID reading of 10 ppm or greater were collected for VOCs.
VOC samples were placed in a cooler with a trip blank.

QA/QC Tracking Log

Trip Blank:	Date:	Sample IDs:	
TB 1	8/10/2020	1) B11-033-SB-1	QA/QC for PAH Soil Data
		2) B11-033-SB-7	
		3) B11-033-SB-10	
		4) B11-032-SB-1	
		5) B11-032-SB-5	
		6) B11-031-SB-1	
		7) B11-030-SB-1	Duplicate: B11-014-SB-5
		8) B11-030-SB-5	Date: 8/11/2020
		9) B11-029-SB-1	MS/MSD: B11-017-SB-5
		10) B11-029-SB-5	Date: 8/11/2020
		11) B11-028-SB-1	Field Blank:
		12) B11-028-SB-7.5	Date: 8/11/2020
TB 1	8/11/2020	13) B11-014-SB-1	Eq. Blank:
		14) B11-014-SB-5	Date: 8/11/2020
		15) B11-013-SB-1	
		16) B11-016-SB-1	
		17) B11-017-SB-1	
		18) B11-017-SB-5	
		19) B11-004-SB-1	
		20) B11-004-SB-4	

Trip Blank:	Date:	Sample IDs:	
		1) B11-015-SB-5	QA/QC for PAH Soil Data
		2) B11-005-SB-2	
TB 1	8/17/2020	3) B11-006-SB-3	
		4) B11-006-SB-7	
		5) B11-006-SB-12	
		6) B11-008-SB-2	
		7) B11-008-SB-6	Duplicate: B11-006-SB-7
TB 1	8/18/2020	8) B11-026-SB-1	Date: 8/17/2020
		9) B11-027-SB-1	MS/MSD: B11-008-SB-6
		10) B11-027-SB-5	Date: 8/17/2020
		11) B11-023-SB-1	Field Blank:
		12) B11-023-SB-5	Date: 8/17/2020
		13) B11-007-SB-1	Eq. Blank:
		14) B11-007-SB-5	Date: 8/17/2020
TB 1	10/5/2020	15) B11-031-SB-5	
		16) B11-031-SB-10	
		17) B11-013-SB-4	
		18) B11-013-SB-10	
TB 1	10/6/2020	19) B11-016-SB-4	
		20) B11-016-SB-10	

		1) B11-003-SB-1	QA/QC for PAH Soil Data
		2) B11-003-SB-5	
		3) B11-020-SB-1	
		4) B11-020-SB-4.5	
		5) B11-021-SB-1	
		6) B11-021-SB-4	
		7) B11-018-SB-1	Duplicate: B11-018-SB-8
		8) B11-018-SB-8	Date: 8/12/2020
		9) B11-018-SB-10	MS/MSD: B11-001-SB-5
TB 1	8/12/2020	10) B11-019-SB-1	Date: 8/13/2020
		11) B11-019-SB-5	Field Blank:
		12) B11-022-SB-1	Date: 8/12/2020
		13) B11-022-SB-5	Eq. Blank:
		14) B11-024-SB-1	Date: 8/12/2020
		15) B11-025-SB-1	
		16) B11-001-SB-1	
		17) B11-001-SB-5	
TB1	8/13/2020	18) B11-002-SB-1	
		19) B11-002-SB-5	
		20) B11-015-SB-1	

		1) B11-025-SB-4	QA/QC for PAH Soil Data
		2) B11-025-SB-10	
		3) B11-011-SB-2	
		4) B11-011-SB-9	
		5) B11-005-SB-5	
		6) B11-010-SB-2	
		7) B11-010-SB-6	Duplicate: B11-005-SB-5
TB 1	10/7/2020	8) B11-009-SB-4	Date: 10/7/2020
		9) B11-009-SB-8	MS/MSD: B11-026-SB-9
		10) B11-012-SB-2	Date: 10/19/2020
		11) B11-012-SB-8	Field Blank:
		12) B11-026-SB-9	Date: 10/8/2020
TB 1	10/19/2020	13) B11-026-SB-10	Eq. Blank:
		14) B11-024-SB-5	Date: 10/8/2020
		15)	
		16)	
		17)	
		18)	
		19)	
		20)	

APPENDIX F

EVALUATION OF DATA COMPLETENESS
Percentage of Non-Rejected Results vs Total Results

Parameter	Parameter Group	Matrix	Number of Validated Results	Detections	Number of Rejected Results	Number of Non-rejected Results	Completeness
Cyanide	CN	Soil	23	23	0	23	100.00%
Aluminum	Metal	Soil	23	23	0	23	100.00%
Antimony	Metal	Soil	23	6	0	23	100.00%
Arsenic	Metal	Soil	25	21	0	25	100.00%
Barium	Metal	Soil	23	23	0	23	100.00%
Beryllium	Metal	Soil	23	22	0	23	100.00%
Cadmium	Metal	Soil	23	23	0	23	100.00%
Chromium	Metal	Soil	23	23	0	23	100.00%
Chromium VI	Metal	Soil	23	1	4	19	82.61%
Cobalt	Metal	Soil	23	23	0	23	100.00%
Copper	Metal	Soil	23	23	0	23	100.00%
Iron	Metal	Soil	23	23	0	23	100.00%
Lead	Metal	Soil	23	22	0	23	100.00%
Manganese	Metal	Soil	24	24	0	24	100.00%
Mercury	Metal	Soil	23	22	0	23	100.00%
Nickel	Metal	Soil	23	23	0	23	100.00%
Selenium	Metal	Soil	23	1	0	23	100.00%
Silver	Metal	Soil	23	5	0	23	100.00%
Thallium	Metal	Soil	24	20	0	24	100.00%
Vanadium	Metal	Soil	23	23	0	23	100.00%
Zinc	Metal	Soil	23	23	0	23	100.00%
Aroclor 1016	PCB	Soil	13	0	0	13	100.00%
Aroclor 1221	PCB	Soil	13	0	0	13	100.00%
Aroclor 1232	PCB	Soil	13	0	0	13	100.00%
Aroclor 1242	PCB	Soil	13	0	0	13	100.00%
Aroclor 1248	PCB	Soil	13	3	0	13	100.00%
Aroclor 1254	PCB	Soil	13	0	0	13	100.00%
Aroclor 1260	PCB	Soil	13	2	0	13	100.00%
Aroclor 1262	PCB	Soil	13	0	0	13	100.00%
Aroclor 1268	PCB	Soil	13	0	0	13	100.00%
PCBs (total)	PCB	Soil	13	2	0	13	100.00%
1,1-Biphenyl	SVOC	Soil	23	13	0	23	100.00%
1,2,4,5-Tetrachlorobenzene	SVOC	Soil	23	1	0	23	100.00%
2,3,4,6-Tetrachlorophenol	SVOC	Soil	23	0	8	15	65.22%
2,4,5-Trichlorophenol	SVOC	Soil	23	0	6	17	73.91%
2,4,6-Trichlorophenol	SVOC	Soil	23	0	6	17	73.91%
2,4-Dichlorophenol	SVOC	Soil	23	0	6	17	73.91%
2,4-Dimethylphenol	SVOC	Soil	23	0	6	17	73.91%
2,4-Dinitrophenol	SVOC	Soil	23	0	9	14	60.87%
2,4-Dinitrotoluene	SVOC	Soil	23	0	0	23	100.00%
2,6-Dinitrotoluene	SVOC	Soil	23	0	0	23	100.00%
2-Chloronaphthalene	SVOC	Soil	23	0	0	23	100.00%
2-Chlorophenol	SVOC	Soil	23	0	6	17	73.91%
2-Methylnaphthalene	SVOC	Soil	23	23	0	23	100.00%
2-Methylphenol	SVOC	Soil	23	0	6	17	73.91%
2-Nitroaniline	SVOC	Soil	23	0	0	23	100.00%
3&4-Methylphenol(m&p Cresol)	SVOC	Soil	23	2	5	18	78.26%
3,3'-Dichlorobenzidine	SVOC	Soil	23	0	0	23	100.00%
4-Chloroaniline	SVOC	Soil	23	0	0	23	100.00%
4-Nitroaniline	SVOC	Soil	23	0	0	23	100.00%
Acenaphthene	SVOC	Soil	23	21	0	23	100.00%
Acenaphthylene	SVOC	Soil	23	23	0	23	100.00%
Acetophenone	SVOC	Soil	23	4	0	23	100.00%

EVALUATION OF DATA COMPLETENESS
Percentage of Non-Rejected Results vs Total Results

Parameter	Parameter Group	Matrix	Number of Validated Results	Detections	Number of Rejected Results	Number of Non-rejected Results	Completeness
Anthracene	SVOC	Soil	23	23	0	23	100.00%
Benz[a]anthracene	SVOC	Soil	23	23	0	23	100.00%
Benzaldehyde	SVOC	Soil	23	7	0	23	100.00%
Benzo[a]pyrene	SVOC	Soil	23	23	0	23	100.00%
Benzo[b]fluoranthene	SVOC	Soil	23	23	0	23	100.00%
Benzo[g,h,i]perylene	SVOC	Soil	23	23	0	23	100.00%
Benzo[k]fluoranthene	SVOC	Soil	23	23	0	23	100.00%
bis(2-chloroethoxy)methane	SVOC	Soil	23	0	0	23	100.00%
bis(2-Chloroethyl)ether	SVOC	Soil	23	0	0	23	100.00%
bis(2-Chloroisopropyl)ether	SVOC	Soil	23	0	0	23	100.00%
bis(2-Ethylhexyl)phthalate	SVOC	Soil	23	6	0	23	100.00%
Caprolactam	SVOC	Soil	23	1	0	23	100.00%
Carbazole	SVOC	Soil	23	9	0	23	100.00%
Chrysene	SVOC	Soil	23	23	0	23	100.00%
Dibenz[a,h]anthracene	SVOC	Soil	23	23	0	23	100.00%
Diethylphthalate	SVOC	Soil	23	0	0	23	100.00%
Di-n-butylphthalate	SVOC	Soil	23	1	0	23	100.00%
Di-n-ocytlphthalate	SVOC	Soil	23	0	0	23	100.00%
Fluoranthene	SVOC	Soil	23	23	0	23	100.00%
Fluorene	SVOC	Soil	23	22	0	23	100.00%
Hexachlorobenzene	SVOC	Soil	23	0	0	23	100.00%
Hexachlorobutadiene	SVOC	Soil	23	0	0	23	100.00%
Hexachlorocyclopentadiene	SVOC	Soil	23	0	0	23	100.00%
Hexachloroethane	SVOC	Soil	23	0	0	23	100.00%
Indeno[1,2,3-c,d]pyrene	SVOC	Soil	23	23	0	23	100.00%
Isophorone	SVOC	Soil	23	0	0	23	100.00%
Naphthalene	SVOC	Soil	23	23	0	23	100.00%
Nitrobenzene	SVOC	Soil	23	0	0	23	100.00%
N-Nitroso-di-n-propylamine	SVOC	Soil	23	0	0	23	100.00%
N-Nitrosodiphenylamine	SVOC	Soil	23	0	0	23	100.00%
Pentachlorophenol	SVOC	Soil	23	0	8	15	65.22%
Phenanthrene	SVOC	Soil	23	23	0	23	100.00%
Phenol	SVOC	Soil	23	2	5	18	78.26%
Pyrene	SVOC	Soil	23	23	0	23	100.00%
Diesel Range Organics	TPH	Soil	23	23	0	23	100.00%
Gasoline Range Organics	TPH	Soil	23	0	0	23	100.00%
Oil & Grease	TPH	Soil	23	22	0	23	100.00%
1,1,1-Trichloroethane	VOC	Soil	3	0	0	3	100.00%
1,1,2,2-Tetrachloroethane	VOC	Soil	3	0	0	3	100.00%
1,1,2-Trichloro-1,2,2-Trifluoroethane	VOC	Soil	3	0	0	3	100.00%
1,1,2-Trichloroethane	VOC	Soil	3	0	0	3	100.00%
1,1-Dichloroethane	VOC	Soil	3	0	0	3	100.00%
1,1-Dichloroethene	VOC	Soil	3	0	0	3	100.00%
1,2,3-Trichlorobenzene	VOC	Soil	3	0	0	3	100.00%
1,2,4-Trichlorobenzene	VOC	Soil	3	0	0	3	100.00%
1,2-Dibromo-3-chloropropane	VOC	Soil	3	0	0	3	100.00%
1,2-Dibromoethane	VOC	Soil	3	0	0	3	100.00%
1,2-Dichlorobenzene	VOC	Soil	3	0	0	3	100.00%
1,2-Dichloroethane	VOC	Soil	3	0	0	3	100.00%
1,2-Dichloroethene (Total)	VOC	Soil	3	0	0	3	100.00%
1,2-Dichloropropane	VOC	Soil	3	0	0	3	100.00%
1,3-Dichlorobenzene	VOC	Soil	3	0	0	3	100.00%
1,4-Dichlorobenzene	VOC	Soil	3	0	0	3	100.00%

EVALUATION OF DATA COMPLETENESS
Percentage of Non-Rejected Results vs Total Results

Parameter	Parameter Group	Matrix	Number of Validated Results	Detections	Number of Rejected Results	Number of Non-rejected Results	Completeness
2-Butanone (MEK)	VOC	Soil	3	0	0	3	100.00%
2-Hexanone	VOC	Soil	3	0	0	3	100.00%
4-Methyl-2-pentanone (MIBK)	VOC	Soil	3	0	0	3	100.00%
Acetone	VOC	Soil	3	0	0	3	100.00%
Benzene	VOC	Soil	3	0	0	3	100.00%
Bromodichloromethane	VOC	Soil	3	0	0	3	100.00%
Bromoform	VOC	Soil	3	0	0	3	100.00%
Bromomethane	VOC	Soil	3	0	0	3	100.00%
Carbon disulfide	VOC	Soil	3	0	0	3	100.00%
Carbon tetrachloride	VOC	Soil	3	0	0	3	100.00%
Chlorobenzene	VOC	Soil	3	0	0	3	100.00%
Chloroethane	VOC	Soil	3	0	0	3	100.00%
Chloroform	VOC	Soil	3	0	0	3	100.00%
Chloromethane	VOC	Soil	3	0	0	3	100.00%
cis-1,2-Dichloroethene	VOC	Soil	3	0	0	3	100.00%
cis-1,3-Dichloropropene	VOC	Soil	3	0	0	3	100.00%
Cyclohexane	VOC	Soil	3	0	0	3	100.00%
Dibromochloromethane	VOC	Soil	3	0	0	3	100.00%
Dichlorodifluoromethane	VOC	Soil	3	0	0	3	100.00%
Ethylbenzene	VOC	Soil	3	0	0	3	100.00%
Isopropylbenzene	VOC	Soil	3	0	0	3	100.00%
Methyl Acetate	VOC	Soil	3	1	0	3	100.00%
Methyl tert-butyl ether (MTBE)	VOC	Soil	3	0	0	3	100.00%
Methylene Chloride	VOC	Soil	3	0	0	3	100.00%
Styrene	VOC	Soil	3	0	0	3	100.00%
Tetrachloroethene	VOC	Soil	3	0	0	3	100.00%
Toluene	VOC	Soil	3	0	0	3	100.00%
trans-1,2-Dichloroethene	VOC	Soil	3	0	0	3	100.00%
trans-1,3-Dichloropropene	VOC	Soil	3	0	0	3	100.00%
Trichloroethene	VOC	Soil	3	0	0	3	100.00%
Trichlorofluoromethane	VOC	Soil	3	0	0	3	100.00%
Vinyl chloride	VOC	Soil	3	0	0	3	100.00%
Xylenes	VOC	Soil	3	0	0	3	100.00%
1,4-Dioxane	VOC/SVOC	Soil	3	0	3	0	0.00%

Data validation has been completed for a representative 30% of all samples