PHASE II
INVESTIGATION REPORT

AREA B: PARCEL B7 AND PARCEL B25
TRADEPOINT ATLANTIC
SPARROWS POINT, MARYLAND

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1.0 INTRODUCTION

ARM Group LLC (ARM), on behalf of Tradepoint Atlantic, has completed two joint Phase II Investigations on portions of the Tradepoint Atlantic property (formerly Sparrows Point Terminal, LLC) that have been designated as Area B: Parcel B7 and Parcel B25 (collectively referred to as the Site). Parcel B7 and Parcel B25 are comprised of 112 acres and 11.7 acres, respectively, within the approximately 3,100-acre former steel plant property (**Figure 1**). The Site is bounded to the north by the former Nelson Box Company facility (within Parcel A10), to the north and west by the former Finishing Mills Area (within Parcel B6 and Parcel B22), to the west by the former Roll Grinding Facility and the current main Tradepoint Atlantic offices (within Parcel B3), to the southwest by the former Pennwood Storage Tank Farm and the former Maryland Pig Plant (within Parcel B19), and to the east by off-property residential and commercial areas as well as the surface water bodies of Jones Creek and Old Road Bay.

The Phase II Investigation was performed in accordance with procedures outlined in the approved Phase II Investigation Work Plan for Area B: Parcel B7 and Parcel B25 (Revision 1 dated May 22, 2018). This Work Plan was approved by the Maryland Department of the Environment (MDE) and United States Environmental Protection Agency (USEPA) via email on June 26, 2018. This Phase II Investigation Report also relies on data obtained under the supplemental Baltimore County Property Transfer Pre-Development Investigation Work Plan (dated April 15, 2019) and an associated Work Plan Update Letter (dated October 14, 2020) that were collectively approved by the MDE and USEPA via email on October 16, 2020. Results from both investigation phases are included and discussed in this report. The investigations were 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.

Parcel B7 and Parcel B25 are part of the acreage that was removed (Carveout Area) from inclusion in 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. Based on this agreement, the USEPA determined that no further investigation or corrective measures will be required under the terms of the Consent Decree for the Carveout Area. However, the SA reflects that the property within the Carveout Area will remain subject to the USEPA's Resource Conservation and Recovery Act (RCRA) Corrective Action authorities.

An application to enter the full Tradepoint Atlantic property (3,100 acres) into the MDE's 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.

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.

There are several existing wooded areas which occupy large portions of the Site. Near the southern end of the Site, a network of unpaved roads is present within the existing wooded areas. Although not labeled on the available historical steel plant drawings, historical aerial images (1952) available through Johns Hopkins University online databases indicate that this southern wooded area was formerly occupied by residential housing for mill workers. During this time period, a golf course occupied the northern portion of Parcel B7 and the entirety of Parcel B25. The historical steel plant drawings indicate the presence of three baseball fields in the center of the Site in an area formerly occupied by the golf course. Several railways are present running from north to south through the Site, but there do not appear to be any significant steel production activities which occurred historically within Parcel B7 or Parcel B25.

Two Yacht Clubs (leased property) are present within Parcel B25, with multiple boat docks extending into Jones Creek. The North Point Yacht Club is located directly to the east of the former baseball fields. The Pleasant Yacht Club is located several hundred feet to the north of the North Point Yacht Club. The southern end of Parcel B7 (to the west of Parcel B19) is comprised of leased property for other tenants. The tenants include a Baltimore County Vehicle Maintenance Facility and Baltimore County Fire Academy. The county operated Vehicle Maintenance Facility includes large areas for vehicle storage and a domed salt storage building. The Baltimore Fire Academy includes a main academy/office building and fire training areas to the east where controlled burns are used for training purposes. A stormwater pond is located adjacent to the fire training areas.

During a site walk of Parcel B25 (on March 15, 2018), ARM personnel noted the presence of two standard 275-gallon aboveground storage tanks (ASTs) containing heating oil, with one AST located at each of the Yacht Clubs. Both ASTs appeared to be in good condition. Boat storage areas and outdoor recreation areas were also observed at each of the Yacht Clubs. Both the North Point and Pleasant Yacht Clubs had playset areas for children, and a pair of horseshoe pits was also observed at the North Point Yacht Club. An additional AST covered by a tarp was present at the Pleasant Yacht Club adjacent to the restroom (believed to be used in place of a septic tank).

During a site walk of Parcel B7 (on March 15, 2018), ARM personnel identified an AST within a secondary containment unit which was labelled as containing sodium bisulfate. This AST was located along a stormwater conveyance channel in the southern portion of Parcel B7. Further along the stormwater conveyance, an oil weir with evidence of apparent petroleum impacts was observed. ARM attempted to locate an historic pumping station within a densely wooded area near the southern boundary of Parcel B7 (bordering Parcel B19). A cluster of abandoned buildings was observed to be vacant and in disrepair at the expected location. At the Baltimore County Vehicle Maintenance Facility, modern ASTs containing diesel fuel (5,000 gallons) and gasoline (2,000 gallons) were observed. A pesticide storage shed was also present at the Vehicle Maintenance Facility.

1.2. OBJECTIVES

The objective of this Phase II Investigation was to characterize the nature and extent of 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 B7 and Parcel B25 Work Plan, groundwater at the Site was previously investigated as described in the Area B Groundwater Investigation Work Plan (Revision 3 dated October 6, 2015). The Area B Groundwater Phase II Investigation Report (Revision 0 dated September 30, 2016) was submitted to the agencies and discusses the detailed findings of the groundwater investigation. A brief review of the findings for relevant groundwater samples (those positioned within the Site) has been included in this Phase II Investigation Report. Additionally, select groundwater samples were collected in the northern section of Parcel B7 under the Baltimore County Property Transfer Pre-Development Investigation Work Plan (dated April 15, 2019) and associated Work Plan Update Letter (dated October 14, 2020). The 2020 groundwater results obtained in the northern section of Parcel B7 are included herein.

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 Environmental Site Assessment (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.

Ground surface elevations at the Site range from approximately 0 to 34 feet above mean sea level (amsl). Generally, elevations slope from the northwest to the southeast toward Jones Creek. The eastern shoreline slopes steeply downward to meet the surface water body. There are several wooded areas throughout the Site with low-lying depressions. Higher elevations are observed along the Sparrows Point Boulevard and I-695 highway ramp in the northern portion of the Site. According to Figure B-2 of the Stormwater Pollution Prevention Plan (SWPPP) Revision 8 dated April 30, 2020, surface water runoff from the southern half of the Site is discharged to the east through the National Pollutant Discharge Elimination System (NPDES) permitted Outfalls 017 and 016. In the northern half of the Site, surface water runoff is conveyed to the east toward Jones Creek, but there is no permitted NPDES outfall in the northern area.

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/HYDROGEOLOGY

The approximate shoreline of the Sparrows Point Peninsula in 1916 is 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, and gravel, as well as natural soils including fine-grained sediments (clays and silts) and coarse-grained sediments (sands). Shallow groundwater was observed in soil cores at varying depths ranging from approximately 4 to 19 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.

Groundwater in the northern section of Parcel B7 was investigated via the installation of four temporary groundwater sample collection points (commonly referred to as piezometers). Sample locations where piezometers were installed included B7-053-PZ, B7-060-PZ, B7-064-PZ, and B7-065-PZ. A piezometer was originally specified to be installed at B7-032-SB; however, this location could not be installed due to significant access restrictions. B7-065-PZ was installed as a replacement for the originally planned location. One permanent groundwater monitoring well (SW-046-MWS) installed during the preceding Area B Groundwater Phase II Investigation in 2015 was successfully resampled in 2020. **Figure 3** shows an aerial view of the five groundwater locations sampled in 2020. A localized potentiometric map for shallow groundwater in the northern section of Parcel B7 has been included on **Figure 3**. The potentiometric map was generated during the Area B Groundwater Phase II Investigation and was originally reported to the MDE and USEPA within the Area B Groundwater Phase II Investigation Report (dated September 30, 2016). These historical elevation contours indicate that groundwater generally flows from northwest to southeast across the Site toward the shoreline of Jones Creek, which is the presumed discharge location for shallow groundwater.

3.0 SITE INVESTIGATION

A total of 224 soil samples (from 77 boring locations and two shallow sediment locations) and six groundwater samples (from five well/piezometer locations) were collected for analysis between October 1, 2018 and December 30, 2020 as part of this Phase II Investigation. The data were collected over several phases prolonging the investigation period. This Phase II Investigation 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 Work Plan(s) and the QAPP.

All site characterization activities were conducted under the property-wide Tradepoint Atlantic Health and Safety Plan (HASP).

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 System (GIS) software (ArcMap Version 10.6).

Sampling targets included, as applicable, 1) Recognized Environmental Conditions (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. One REC (REC 12B – Rail Yard Fill Materials) was identified at the Site based on the Phase I ESA.

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 within the Site boundary. ARM also reviewed a list of former PCB-containing equipment on the property via a historical PCB Inventory Map. There were no PCB-containing areas identified at the Site from the PCB Inventory Map.

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. Sampling targets were also identified during the pre-investigation site visit. Additional sample locations were distributed to provide complete coverage of the Site and to fill in areas with insufficient coverage. A summary table of the investigation plan, along with the applicable boring identification numbers and the analyses performed, has been provided as **Appendix A**. The density of soil borings met the requirements set forth in QAPP Worksheet 17 – Sampling Design and Rationale. Per the requirements given in the Work Plan, a minimum of 60 borings were required to provide coverage of the Site. A total of 77 soil borings (and two sediment samples) were completed during the Phase II Investigation.

During the completion of fieldwork, it was necessary to shift some borings from the approved locations given in the Work Plan, primarily due to equipment refusal and/or access restrictions. **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.

3.2. SOIL INVESTIGATION

Continuous core soil borings were advanced at 77 locations across the Site to assess the presence or absence of soil contamination, and to assess the vertical distribution of any encountered contamination (**Figure 4**). The 77 continuous core soil borings were advanced to a maximum depth of 20 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). One soil boring (B7-032-SB) was completed using a hand auger rather than the Geoprobe® due to significant access restrictions. At each of the 77 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 from visual observations.

In each boring, one shallow sample was collected from the 0 to 1 foot depth interval. If unsuitable surface cover materials (such as asphalt pavement) were present, the first 1 foot of soil beneath this layer was collected as the shallow sample. 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 samples was 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 B7 and Parcel B25 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 addition to the standard sampling procedures identified above, special consideration was made for soil borings located within the historic golf course area. One additional shallow sample was collected from the 1 to 2 foot depth interval for borings located within the historic golf course area. Soil sample locations within the historic golf course area included: B25-001-SB through B25-014-SB, B7-001-SB through B7-003-SB, B7-014-SB, B7-015-SB, B7-028-SB through B7-044-SB, B7-053-SB through B7-061-SB, B7-064-SB and B7-065-SB.

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 10-foot bgs samples were held prior to analysis in accordance with the Parcel B7 and Parcel B25 Work Plan requirements. Excluding these deep samples, the remaining soil samples were analyzed for Target Compound List (TCL) semi-volatile organic compounds (SVOCs) and polynuclear aromatic hydrocarbons (PAHs) via USEPA Methods 8270 and 8270 SIM, 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. The shallow soil samples collected across the Site from the 0 to 1 foot bgs interval were analyzed for polychlorinated biphenyls (PCBs) via USEPA Method 8082. Soil samples collected within the historic golf course (listed above) were also analyzed for pesticides via USEPA Method 8081 for the shallow 0 to 1 foot bgs and 1 to 2 foot bgs intervals. Two soil borings that targeted a pesticide storage building located within the Baltimore County Vehicle Maintenance Facility (B7-007-SB and B7-008-SB) were also analyzed for pesticides in the 0 to 1 foot depth interval; however there was no 1 to 2 foot interval sample collected from these locations per the Work Plan. 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.

If the PID reading from the deep (9 to 10 foot bgs) sampling interval was less than 10 ppm, all parameters were held by the laboratory pending the analysis of the overlying 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 overlying samples. If the preliminary laboratory results from the 4 to 5 foot bgs (or field adjusted) 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.

Each soil sample collected inside the Baltimore Fire Academy area was analyzed for per- and polyfluoroalkyl substances (PFAS) including perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) via Modified USEPA Method 537. Soil boring locations inside the Baltimore Fire Academy included: B7-004-SB through B7-006-SB, B7-022-SB, B7-023-SB, and B7-045-SB.

3.3. SEDIMENT INVESTIGATION

A stormwater management pond is located in the northeastern corner of the Baltimore Fire Academy facility. Two sediment samples (B7-026-SD and B7-027-SD) were collected from the pond to determine what impact, if any, fire suppression training procedures have had on the pond. The agencies specifically requested that these samples should be added to the sampling plan. Each of the sediment samples were collected as a grab sample from the top 12 inches of accumulated sediment in the bottom surface of the pond.

All sediment samples were collected in accordance with the methods specified in **Field SOP Number 003** provided in Appendix A of the QAPP. Each sediment sample was analyzed for VOCs via USEPA Method 8260, SVOCs and PAHs via USEPA Methods 8270 and 8270 SIM, TAL-Metals via USEPA Methods 6010 and 7471, Oil & Grease via USEPA Method 9071, TPH-DRO and TPH-GRO via USEPA Method 8015, PCBs via USEPA Method 8082, hexavalent chromium via USEPA Method 7196, cyanide via USEPA Method 9012, and PFAS via Modified USEPA Method 537. Analytical methods, sample containers, preservatives, and holding times for the analyses are listed in the QAPP Worksheet 19 & 30 – Sample Containers, Preservation, and Holding Times.

3.4. VISUAL SLAG FILL DELINEATION INVESTIGATION

A visual slag delineation investigation was conducted along the perimeter of the former rail yard in the northern section of Parcel B7 to characterize the horizontal extent of surficial slag fill. The horizontal extents of the slag fill were delineated via the completion of nine soil borings to a depth of 5 feet bgs using a Geoprobe® MC-7 Macrocore soil sampler. Soil cores were visually screened and logged using standard techniques in accordance with the **Field SOP Number 012** provided in Appendix A of the QAPP.

Five soil borings were completed at the ostensible edge of the former rail yard. A paired soil boring was completed along a transect at a distance of approximately 50 feet into the wooded area beyond

the former rail yard to delineate the presence of slag aggregate. Therefore, five transects were completed along the perimeter of the former rail yard to characterize the horizontal extent of slag fill materials, as shown on **Figure 5**. The Baltimore County Property Transfer Pre-Development Investigation Work Plan proposed 10 visual slag delineation soil borings; however, due to accessibility one boring (T1-2) was unable to be completed. Soil boring logs from the nine successfully completed locations have been included in **Appendix B**. The USCS group symbols provided on the attached boring logs are from visual observations.

3.5. GROUNDWATER INVESTIGATION

Four shallow temporary groundwater piezometers (B7-053-PZ, B7-060-PZ, B7-064-PZ, and B7-065-PZ) and one groundwater monitoring well (SW-046-MWS) were sampled in 2020 to characterize groundwater within the northern section of Parcel B7. A piezometer was originally specified to be installed at B7-032-SB; however, this location could not be installed due to significant access restrictions. B7-065-PZ was installed as a replacement for the originally planned location. SW-046-MWS was initially sampled on December 18, 2020. On December 30, 2020, a groundwater sample was recollected from SW-046-MWS, along with a corresponding duplicate sample, to meet the property-wide quality assurance and quality control (QA/QC) requirements as defined by the QAPP. Therefore, two groundwater samples were collected from SW-046-MWS (on December 18 and December 30, 2020). The results from both recent samples at SW-046-MWS are included and discussed in this Phase II Investigation Report. The locations where shallow groundwater samples were collected in 2020 are provided on **Figure 3**.

Piezometer installation activities were conducted in accordance with the procedures and methods referenced in **Field SOP Number 028** provided in Appendix A of the QAPP. The piezometers were installed at each location using the Geoprobe® DT22 Dual Tube sampling system. During the installation of each piezometer, soil types were logged and screened with a hand-held PID. The piezometer construction logs have been included as part of **Appendix B**. Monitoring well SW-046-MWS was installed in November 2015 as originally reported in the Area B Groundwater Phase II Investigation Report (dated September 30, 2016). The historical construction log from this shallow monitoring well is also included in **Appendix B**.

Following the installation of each sample collection point, the 0-hour depth to water was documented and the collection point was checked for the presence of non-aqueous phase liquid (NAPL) using an oil-water interface probe in accordance with the methods referenced in **Field SOP Number 019** provided in Appendix A of the QAPP. After the installation of each sample collection point, down-hole equipment was decontaminated according to the procedures and methods referenced in **Field SOP Number 016** provided in Appendix A of the QAPP.

Groundwater samples were collected at each location in accordance with methods referenced in **Field SOP Number 006** provided in Appendix A of the QAPP; which employed the use of laboratory supplied sample containers and preservatives, a peristaltic pump, dedicated sample

tubing, and a water quality multiparameter meter with a flow-through cell. Groundwater samples submitted for analysis of dissolved metals were filtered in the field with an in-line 0.45 micron filter. The sampling and purge logs have been included in **Appendix D**. Calibration of the multiparameter meter was performed before the start of each day of the sampling event. Documentation of the multiparameter meter calibration is included in **Appendix D**.

Groundwater samples were submitted to PACE to be analyzed for VOCs via USEPA Method 8260, Oil & Grease via USEPA Method 1664, TPH-DRO/GRO via USEPA Methods 5030 and 8015, TAL-dissolved metals via USEPA Methods 6010 and 7470, dissolved hexavalent chromium via USEPA Method 7196, and total cyanide via USEPA Method 9012. The groundwater samples collected from the permanent well (SW-046-MWS) were also submitted to PACE to be analyzed for total metals. The SVOC and PAH groundwater samples collected in 2020 were submitted to ALS Environmental (ALS) rather than PACE to be analyzed via USEPA Methods 8270 and 8270 SIM. Sample containers, preservatives, and holding times for the sample analyses are listed in the QAPP Worksheet 19 & 30 – Sample Containers, Preservation, and Holding Times.

3.6. 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 or the installation of groundwater sample points;
- purged groundwater;
- decontamination fluids; and
- used personal protective equipment

Following the completion of field activities, composite samples were gathered with aliquots from the Phase II IDW soil drums for waste characterization. Multiple composite soil samples were required because the investigation was performed in distinct phases (2018 through 2020) that each generated soil IDW from the Site. Following the analysis, the soil IDW from each investigation phase 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 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 project-specific IDW drum log from this Phase II Investigation is included as **Appendix E**. 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

This evaluation of soil conditions includes the sediment samples collected from B7-026-SD and B7-027-SD. Soil and sediment 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 soil (and sediment) parameters are summarized and compared to the PALs in **Table 5** (Organics), **Table 6** (Pesticides), **Table 7** (PFAS), and **Table 8** (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 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. Except for the two sediment samples collected from the stormwater pond adjacent to the fire training areas, 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. A total of five PAHs (benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-c,d]pyrene) were identified at concentrations above their respective PALs. The only SVOC detected above its PAL in Parcel B25 was benzo[a]pyrene at B25-006-SB-1 with a detection of 5.5 mg/kg. The maximum concentrations of each constituent were detected in B7-040-SB-1 at 479 mg/kg (benz[a]anthracene), 298 mg/kg (benzo[a]pyrene), 464 mg/kg (benzo[b]fluoranthene), 35.7 mg/kg (dibenz[a,h]anthracene), and 100 mg/kg (indeno[1,2,3-c,d]pyrene). The soil sample collected from the interval immediately beneath this surface sample from the 1 to 2 foot bgs interval (B7-040-SB-2) had no SVOC PAL exceedances. The SVOC PAL exceedances are shown on **Figure 6**.

Shallow soil samples collected across the Site from the 0 to 1 foot bgs (or field adjusted) interval (including the two sediment samples) were analyzed for PCBs. **Table 5** provides a summary of PCBs detected above the laboratory's MDLs. There were no PCBs detected above their 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-DRO or TPH-GRO. There were three detections of Oil & Grease above the PAL of 6,200 mg/kg, which were identified in shallow soil samples (collected from the 0 to 1 foot bgs interval) B7-007-SB-1 (at 6,780 mg/kg), B7-048-SB-1 (at 14,700 mg/kg), and B25-011-SB-1 (at 18,600 mg/kg). The Oil & Grease PAL exceedances are shown on **Figure 7**. Each shallow Oil & Grease PAL exceedance had an underlying soil sample which had a significantly lower concentration of Oil & Grease that did not exceed the PAL, suggesting the exceedances could be due to past surficial releases which to not appear to extend into the subsurface. Additionally, no physical evidence of NAPL was observed in any soil cores completed during this investigation.

4.1.2. Soil Conditions: Pesticides

Soil samples collected across the historical golf course from the 0 to 1 foot bgs and 1 to 2 foot bgs intervals were analyzed for pesticides. Pesticides were required during this investigation because the agencies had previously expressed concern regarding the possible use of pesticides on the fairways and putting greens of the historical golf course. Additionally, two soil borings that targeted a pesticide storage building located within the Baltimore County Vehicle Maintenance Facility (B7-007-SB and B7-008-SB) were also analyzed for pesticides in the 0 to 1 foot bgs interval per the Work Plan. **Table 6** provides a summary of pesticides detected above the laboratory's MDLs. Although PALs were not specified for pesticides in the QAPP, the USEPA's Composite Worker RSLs for pesticides have been adopted as the PALs during this investigation. There were no pesticides detected above their respective RSLs.

4.1.3. Soil Conditions: PFAS

Each soil sample collected within the Baltimore Fire Academy area was analyzed for PFAS (including PFOS and PFOA). Additionally, the sediment samples (B7-026-SD and B7-027-SD) collected from the stormwater management pond were also analyzed for PFAS. The agencies had previously expressed concern regarding the potential historical use of PFAS which are present in some firefighting materials. **Table 7** provides a summary of various PFAS detected above the laboratory's MDLs. There are no PALs specified for PFAS in the QAPP. The USEPA has published a health advisory (non-enforceable) standard of 70 parts per trillion (0.07 µg/L) with a margin of protection for a lifetime exposure to PFOS and PFOA in drinking water. The USEPA does not currently publish soil standards for PFAS. The soil data obtained during this investigation indicates low-level detections of various PFAS, but there are no significantly elevated results that could be indicative of a potential source area.

4.1.4. Soil Conditions: Inorganic Constituents

Table 8 provides a summary of inorganic constituents detected above the laboratory's MDLs in the soil samples collected from across the Site. Two inorganic constituents (arsenic and manganese) were detected above their respective PALs in multiple soil samples. Arsenic was detected above (or equal to) its PAL of 3 mg/kg in 183 total samples analyzed for this constituent with a maximum detection of 64.8 mg/kg in B7-045-SB-1.5. Arsenic was by far the most common PAL exceedance. Manganese was detected above the PAL of 26,000 mg/kg in six soil samples with a maximum detection of 125,000 mg/kg also in B7-045-SB-1.5. The inorganic PAL exceedances are shown on **Figure 8**.

4.1.5. Soil Conditions: Results Summary

Table 5, **Table 6**, **Table 7**, and **Table 8** provide summaries of the detected organic compounds, pesticides, PFAS, and inorganics in the soil samples submitted for laboratory analysis, while **Figure 6** through **Figure 8** present the soil sample results that exceeded the PALs. PAL exceedances in soil within Parcel B7 and Parcel B25 were limited to five PAHs (benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-c,d]pyrene), Oil & Grease, and two metals (arsenic and manganese). **Table 9** provides a summary of results for all PAL exceedances in soil, including maximum values and detection frequencies. VOCs, PCBs, TPH-DRO/GRO, pesticides, and PFAS were not detected above their respective PALs (as applicable) and are not considered to be significant soil contaminants in Parcel B7 and Parcel B25.

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.
- There were no locations where detections of PCBs exceeded 50 mg/kg.
- There were no PAL exceedances of TPH-DRO/GRO in any soil samples collected at the Site. Shallow soil samples (collected from the 0 to 1 foot bgs interval) B7-007-SB-1, B7-048-SB-1, and B25-011-SB-1 had detected concentrations of Oil & Grease above the PAL of 6,200 mg/kg. In each of the three identified soil borings, the immediate underlying samples (B7-007-SB-5, B7-048-SB-5, and B25-011-SB-2) contained significantly lower Oil & Grease concentrations, none of which exceeded the PAL, suggesting the exceedances could be due to past surficial releases which to not appear to extend into the subsurface. However, these identified boring locations should be considered for proximity to proposed

utilities in any future development plans to provide contingency planning for NAPL that could potentially be encountered during development. Notably, no physical evidence of NAPL was observed in any soil cores completed during this investigation.

4.2. VISUAL SLAG FILL DELINEATION

A visual slag delineation investigation was conducted along the perimeter of the former rail yard in the northern portion of the Site to characterize the horizontal extent of surficial slag fill. A total of nine soil borings were completed to 5 feet bgs along five transects in the vicinity of the former rail yard. One planned boring (T1-2) was unable to be completed. Soil boring logs from the nine locations are included in **Appendix B**. The visual delineation results are summarized as follows:

Transect ID	Edge of Rail Yard Observed Slag Interval (ft bgs)	50-foot Step Out Boring Observed Slag Interval (ft bgs)
Transect 1	0 to 0.1	NA
Transect 2	(no slag observed)	(no slag observed)
Transect 3	0 to 2.3	(no slag observed)
Transect 4	0 to 4	0 to 1.2
Transect 5	0 to 4.5	2.6 to 2.7 and 4.1 to 4.2

NA indicates that a soil boring was unable to be completed at this location

The visual delineation investigation determined that slag fill material is largely absent in the soil column (above 5 feet bgs) at a distance of approximately 50 feet from the ostensible edge of the former rail yard. The locations of the visual delineation transect borings are shown on **Figure 5**. Among the soil borings completed directly within the former rail yard (B7-001-SB, B7-002-SB, B7-003-SB, B7-014-SB, B7-015-SB, B7-053-SB, and B7-054-SB), slag aggregate was observed primarily at depths from 0 to 2.5 feet bgs.

4.3. GROUNDWATER CONDITIONS

The analytical results for the detected groundwater parameters in the northern section of Parcel B7 are summarized and compared to the PALs in **Table 10** (Organics) and **Table 11** (Inorganics). The laboratory Certificates of Analysis (including Chains of Custody) and DVRs have been included as electronic attachments. The DVRs contain a glossary of qualifiers for the final flags assigned to results in the attached summary tables.

4.3.1. Groundwater Conditions: Organic Compounds

Table 10 provides a summary of VOCs identified in groundwater samples above the laboratory's MDLs. There were no VOCs detected above their respective PALs.

Table 10 provides a summary of SVOCs identified in the groundwater samples above the laboratory's MDLs. Similar to the evaluation of soil data, the PALs for relevant PAHs have been adjusted upward based on revised toxicity data published in the USEPA RSL Resident Tapwater Table. A total of five PAHs (benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-c,d]pyrene) were identified above their respective PALs in one groundwater sample (B7-053-PZ) at concentrations of 0.64 µg/L, 0.73 µg/L, 0.8 µg/L, 0.13 µg/L, and 0.6 µg/L, respectively. The SVOC PAL exceedances are shown on **Figure 9**.

Table 10 provides a summary of the TPH/Oil & Grease detections in groundwater above the laboratory's MDLs. TPH-GRO and Oil & Grease were not detected above the PAL at any sample locations. TPH-DRO was identified above the PAL in four groundwater locations with a maximum detection of 120 µg/L in SW-046-MWS. Each location was checked for the potential presence of NAPL using an oil-water interface probe prior to sampling. During these checks, NAPL was not detected in any of the groundwater sampling locations. The TPH-DRO PAL exceedances are shown on **Figure 9**.

4.3.2. Groundwater Conditions: Inorganic Constituents

Table 11 provides a summary of inorganic constituents detected in groundwater above the laboratory's MDLs. Seven total and/or dissolved metals (aluminum, beryllium, cobalt, iron, lead, manganese, and thallium) were detected above their respective aqueous PALs. The maximum detections for each metal were: 37,800 µg/L (B7-064-PZ), 4.5 µg/L (B7-065-PZ), 228 µg/L (SW-046-MWS), 38,300 µg/L (B7-064-PZ), 28 µg/L (B7-064-PZ), 11,700 µg/L (SW-046-MWS), and 4 µg/L (SW-046-MWS), respectively. Cobalt and manganese had exceedances at multiple locations, but the remaining inorganic exceedances were identified at only single locations. The inorganic PAL exceedances are shown on **Figure 9**. For simplicity, the figure does not include duplicate exceedances of total and dissolved metals at applicable sample locations. If both total and dissolved concentrations exceeded the PAL for a specific metal, the value for total metals is displayed on the figure.

4.3.3. Groundwater Conditions: Historical Area B Investigation

As specified in the approved Parcel B7 and Parcel B25 Work Plan, groundwater at the Site was investigated as described in the separate Area B Groundwater Investigation Work Plan (dated October 6, 2015). The Area B Groundwater Phase II Investigation Report (dated September 30, 2016) was submitted to discuss the detailed findings of this groundwater investigation. Groundwater results obtained during the separate investigation were screened against the PALs established in the QAPP (or other direct guidance from the agencies) to determine exceedances. The complete findings from the groundwater investigation, including detection summary tables and exceedance figures, were provided in the referenced Phase II Investigation Report. A figure summarizing the shallow aqueous PAL exceedances (for all classes of compounds) in the vicinity of Parcel B7 and Parcel B25 is provided as **Appendix F**. The groundwater analytical results

obtained from the intermediate and lower hydrogeologic zones are not relevant for this Parcel B7 and Parcel B25 Phase II Investigation but can be reviewed in the separate groundwater report.

As discussed above, some of the PALs have been updated since the submission of the Area B Groundwater Phase II Investigation Report. In particular, the aqueous screening levels for some PAHs have been adjusted upward based on revised toxicity data published in the USEPA RSL Resident Tapwater Table. Aqueous PAL exceedances in the shallow groundwater in the vicinity of Parcel B7 and Parcel B25 consisted of one VOC (chloroform), one SVOC (pentachlorophenol), TPH-DRO, and seven total/dissolved metals (beryllium, hexavalent chromium, cobalt, iron, manganese, nickel, and vanadium). The historical hexavalent chromium exceedances are suspect because these samples were collected for analysis of total hexavalent chromium rather than dissolved hexavalent chromium; USEPA Method 7196 is subject to colorimetric interferences when analyzing unfiltered samples and results for this compound have commonly been impacted by sample color. For simplicity, the inorganic PAL exceedances shown in **Appendix F** do not include duplicate exceedances of total and dissolved metals. If both total and dissolved concentrations exceeded the PAL at a given location, the value for total metals is displayed.

Each permanent well sampled during the Area B Groundwater Investigation was checked for the potential presence of NAPL using an oil-water interface probe prior to sampling. During these checks, NAPL was not detected in any of the groundwater wells positioned within the Site.

4.3.4. Groundwater Conditions: Results Summary

Table 10 and **Table 11** provide summaries of the parameters detected in the groundwater samples collected in 2020 in the northern section of Parcel B7, and **Figure 9** presents the locations and aqueous results that exceeded the PALs. The PAL exceedances within the northern section of Parcel B7 consisted of five PAHs (benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-c,d]pyrene), TPH-DRO, and seven total and/or dissolved metals (aluminum, beryllium, cobalt, iron, lead, manganese, and thallium).

The 2020 groundwater data were screened to determine whether individual sample results may exceed the USEPA's Vapor Intrusion (VI) Screening Levels (Target Cancer Risk (TCR) of 1E-5 and Target Hazard Quotient (THQ) of 1) as determined by the Vapor Intrusion Screening Level (VISL) Calculator (https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-levels-visls). The PALs specified in the QAPP are based upon drinking water use, which is not a potential exposure pathway for groundwater at the Site.

None of the aqueous results exceeded the individual VI TCR or THQ criteria as specified by the VISL Calculator. Following the initial screening, a cumulative VI risk assessment was also performed for each individual sample location, with the results separated by cancer risk versus non-cancer hazard. All compounds with detections (and corresponding VISLs) were included in the computation of the cumulative cancer risk, and all compounds with detections exceeding 10%

of the THQ level were included in the evaluation of non-cancer hazard. None of the cumulative VI cancer risks were greater than 1E-5, and there were no compounds above the 10% THQ level. The cumulative VI comparisons for the 2020 groundwater data are provided in **Table 12**.

Appendix F presents the historical locations and results that exceeded the PALs obtained during the prior Area B Groundwater Investigation. The complete results were presented within the Area B Groundwater Phase II Investigation Report (dated September 30, 2016), which also included its own VI risk/hazard screening. There were no potential VI risks/hazards identified from the shallow groundwater sampling points completed during the prior investigation.

The presence and absence of groundwater impacts within the Site boundaries have been adequately described. Groundwater is not used on the Tradepoint Atlantic property (and is not proposed to be utilized). There were no concerns related to potential VI risks/hazards at the Site. Based on the relatively low-level analytical results identified during this investigation, there do not appear to be significant ongoing sources of groundwater contamination present.

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, PFAS, pesticides, or TPH/Oil & Grease) are present in Site media (soil/sediment and groundwater) 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 the presence of PAL 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 G**. 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/Sediment – VOCs only
  - Water – VOCs only
- Blind Field Duplicate – at a rate of one per twenty samples
  - Soil/Sediment – VOCs, SVOCs, Metals, TPH-DRO, TPH-GRO, Oil & Grease, PCBs, hexavalent chromium, and cyanide
  - Water – VOCs, SVOCs, Metals, TPH-DRO, TPH-GRO, Oil & Grease, hexavalent chromium, and cyanide
- Matrix Spike/Matrix Spike Duplicate – at a rate of one per twenty samples
  - Soil/Sediment – VOCs, SVOCs, Metals, TPH-DRO, TPH-GRO, Oil & Grease, PCBs, and hexavalent chromium
  - Water – VOCs, SVOCs, Metals, TPH-DRO, TPH-GRO, Oil & Grease, and hexavalent chromium
- Field Blank and Equipment Blank – at a rate of one per twenty samples
  - Soil/Sediment – VOCs, SVOCs, Metals, TPH-DRO, TPH-GRO, Oil & Grease, hexavalent chromium, and cyanide
  - Water – 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 logs have been provided in **Appendix C** (PID calibration log) and **Appendix D** (multiparameter meter calibration logs). Documentation of the multiparameter meter end of the day calibration check was not included for December 11, 2020.

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 ALS 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 the DVRs 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/sediment results that were rejected during data validation are provided in **Table 13**. 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 003, 006, 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 (excluding PFAS) is provided in **Appendix H**. This evaluation of completeness includes only the representative 30% (minimum) of sample results which were randomly selected for validation. The full PFAS soil dataset was validated with no rejected results.

All groundwater compounds had an overall completeness ratio of 100%. The only soil analytes with a completeness ratio below 90% were 1,4-dioxane (all results rejected; 0%) and hexavalent chromium (77%). Neither of these parameters had PAL exceedances in any soil samples collected across the Site. The only sediment analyte with a completeness ratio below 90% was 1,4-dioxane (both results rejected; 0%). The rejection of the 1,4-dioxane results has not been uncommon for solid matrix data obtained from the Tradepoint Atlantic property. Sufficient information is available in the groundwater dataset to evaluate the significance of 1,4-dioxane and hexavalent chromium at the Site. Overall, the soil/sediment and groundwater data can be used as intended, and no significant data gaps were identified.

6.0 FINDINGS AND RECOMMENDATIONS

The objective of this joint Parcel B7 and Parcel B25 Phase II Investigation was to characterize the nature and extent of contamination at the Site. During the Phase II Investigation, a total of 224 soil samples (from 77 boring locations and two shallow sediment locations) and six groundwater samples (from five well/piezometer 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 (including sediments) were analyzed for VOCs, SVOCs, TPH-DRO/GRO, Oil & Grease, TAL-Metals, hexavalent chromium, cyanide, PCBs, pesticides, and/or PFAS in accordance with the requirements of the project-specific soil sampling plan. Groundwater samples were analyzed for VOCs, SVOCs, TPH-DRO/GRO, Oil & Grease, TAL-dissolved metals, dissolved hexavalent chromium, and total cyanide. The groundwater samples collected from the permanent well (SW-046-MWS) were also analyzed for total metals. An additional nine soil borings were completed to a maximum depth of 5 feet bgs to visually delineate surficial slag fill along the perimeter of the historical rail yard.

6.1. SOIL

The concentrations of constituents in the soil (and sediment) 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. VOCs, PCBs, TPH-DRO/GRO, and pesticides were not detected above their respective PALs and are not considered to be significant soil contaminants at the Site. The USEPA does not currently publish soil standards for PFAS, but only low-level detections of various PFAS were identified during the investigation. No physical evidence of NAPL was observed in any soil cores completed during this investigation.

PAL exceedances in soil/sediment within Parcel B7 and Parcel B25 were limited to five PAHs (benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-c,d]pyrene), Oil & Grease, and two metals (arsenic and manganese). The maximum concentrations of the PAHs were 479 mg/kg (benz[a]anthracene), 298 mg/kg (benzo[a]pyrene), 464 mg/kg (benzo[b]fluoranthene), 35.7 mg/kg (dibenz[a,h]anthracene), and 100 mg/kg (indeno[1,2,3-c,d]pyrene); these maximum PAH detections were all documented in shallow sample B7-040-SB-1 which was located in the center of a highway median at the northern end of the Site. Oil & Grease PAL exceedances were documented in only three soil borings, each of

which should be considered for proximity to any future proposed utilities to provide contingency planning for NAPL that could potentially be encountered during development (although it is notable that no physical evidence of NAPL was observed on the Site). The three shallow Oil & Grease exceedances (6,780 mg/kg in B7-007-SB-1, 14,700 mg/kg in B7-048-SB-1, and 18,600 mg/kg in B25-011-SB-1) all had underlying soil samples which had significantly lower detections of Oil & Grease that did not exceed the PAL, suggesting the exceedances could be due to past surficial releases which to not appear to extend into the subsurface. The maximum concentrations of arsenic and manganese were 64.8 mg/kg and 125,000 mg/kg, respectively; these maximum metals detections were both documented in shallow sample B7-045-SB-1.5. Arsenic was by far the most common PAL exceedance.

6.2. VISUAL SLAG FILL

The visual delineation investigation determined that slag fill material is largely absent in the soil column (above 5 feet bgs) at a distance of approximately 50 feet from the ostensible edge of the former rail yard. Transect 4 and Transect 5 had minor observations of slag fill present in the borings that were completed 50 feet from the edge of the former rail yard. A summary table of the slag interval observations is provided in Section 4.2, and the soil boring logs from the nine transect borings are included in **Appendix B**. Among the soil borings completed directly within the former rail yard (B7-001-SB, B7-002-SB, B7-003-SB, B7-014-SB, B7-015-SB, B7-053-SB, and B7-054-SB), slag aggregate was observed primarily at depths from 0 to 2.5 feet bgs.

6.3. GROUNDWATER

The concentrations of constituents in the groundwater have been characterized by this Phase II Investigation and the prior Area B Groundwater Phase II Investigation to provide estimates of exposure point concentrations to support risk assessment. NAPL was not detected at any of the groundwater sample locations included in either investigation.

PAL Exceedances in groundwater within the northern section of Parcel B7 (collected in 2020) consisted of five PAHs (benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-c,d]pyrene), TPH-DRO, and seven total and/or dissolved metals (aluminum, beryllium, cobalt, iron, lead, manganese, and thallium). Each listed SVOC was identified above the PAL in one groundwater sample (B7-053-PZ) at concentrations of 0.64 µg/L, 0.73 µg/L, 0.8 µg/L, 0.13 µg/L, and 0.6 µg/L, respectively. TPH-DRO was identified above the PAL in four groundwater locations with a maximum detection of 120 µg/L in SW-046-MWS. The maximum detections for each listed metal were: 37,800 µg/L (B7-064-PZ), 4.5 µg/L (B7-065-PZ), 228 µg/L (SW-046-MWS), 38,300 µg/L (B7-064-PZ), 28 µg/L (B7-064-PZ), 11,700 µg/L (SW-046-MWS), and 4 µg/L (SW-046-MWS), respectively. Cobalt and manganese had exceedances at multiple locations, but the remaining inorganic exceedances were identified at single locations.

Findings from the Area B Groundwater Phase II Investigation, which included the groundwater data obtained in the vicinity of Parcel B7 and Parcel B25, were presented within the Area B Groundwater Phase II Investigation Report (dated September 30, 2016). An aqueous PAL exceedance figure is provided as **Appendix F** to indicate the locations of shallow groundwater exceedances from this historical groundwater investigation. Aqueous PAL exceedances in the shallow groundwater in the vicinity of Parcel B7 and Parcel B25 consisted of one VOC (chloroform), one SVOC (pentachlorophenol), TPH-DRO, and seven total/dissolved metals (beryllium, hexavalent chromium, cobalt, iron, manganese, nickel, and vanadium). The historical hexavalent chromium exceedances are suspect because these samples were collected for analysis of total hexavalent chromium rather than dissolved hexavalent chromium; USEPA Method 7196 is subject to colorimetric interferences when analyzing unfiltered samples and results for this compound have commonly been impacted by sample color.

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. If future construction/excavation leads to potential construction worker exposures to groundwater, health and safety plans should be implemented to limit exposure risk. The groundwater data (including the data obtained in 2020 as well as the historical data from the Area B Groundwater Phase II Investigation) were screened to determine whether any cumulative (or individual) sample results exceeded the USEPA VI TCR (carcinogen) or THQ (non-carcinogen) Screening Levels. There are no concerns related to potential VI risks/hazards at the Site.

6.4. RECOMMENDATIONS

Sufficient remedial investigation data has been collected to evaluate the nature and extent of possible constituents of concern in Parcel B7 and Parcel B25. The presence and absence of soil, sediment, and groundwater impacts within Parcel B7 and Parcel B25 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 concentrations of Oil & Grease (B7-007-SB, B7-048-SB, and B25-011-SB) should be considered for proximity to proposed utilities in any future development plans. Although NAPL was not observed on Parcel B7 or Parcel B25 during this investigation, if future utilities are proposed in the vicinity of these borings, appropriate contingencies for the mitigation of potential NAPL mobility should be specified in a project-specific Response and Development Work Plan.

7.0 REFERENCES

ARM Group Inc. (2016). *Phase II Investigation Report – Area B Groundwater*. Revision 0. September 30, 2016.

ARM Group Inc. (2018). *Phase II Investigation Work Plan – Area B: Parcel B7 and Parcel B25.* Revision 1. May 22, 2018.

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

ARM Group LLC (2020). *Pre-Development Investigation Work Plan Update Letter – Baltimore County Property Transfer Area B: Parcel B7*. October 14, 2020.

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USEPA (2017). Vapor Intrusion Screening Level (VISL) Calculator version 3.5 (https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-levels-visls).

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 A15
Parcel A2
Parcel A17
Parcel A18
Parcel A16
Parcel A6
Parcel A4
Parcel A3
Parcel A1
Parcel A10
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

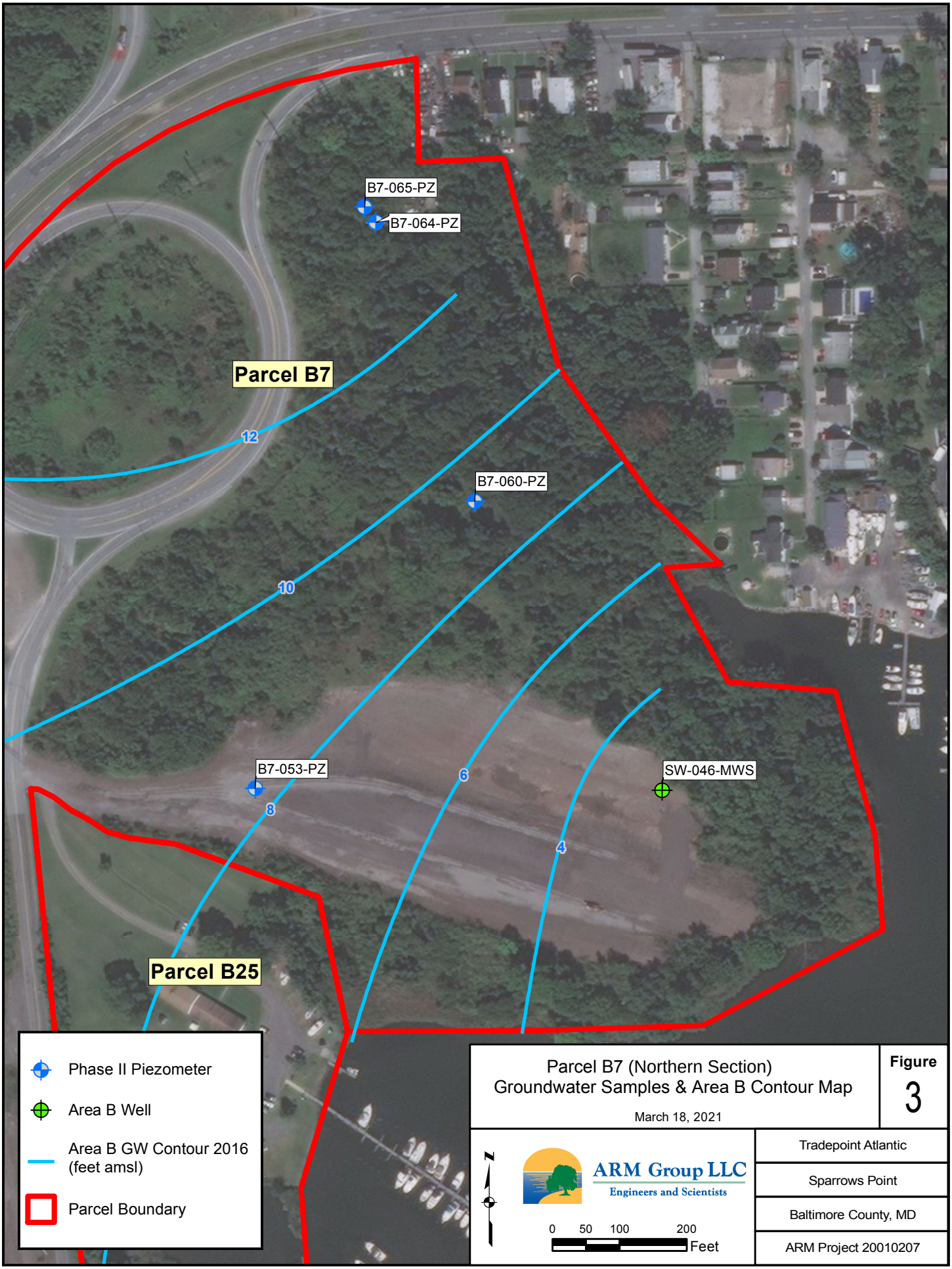
0 500 1,000 2,000 Feet

Tradepoint Atlantic

Sparrows Point

Baltimore County, MD

Area A: Project 200101
Area B: Project 200102



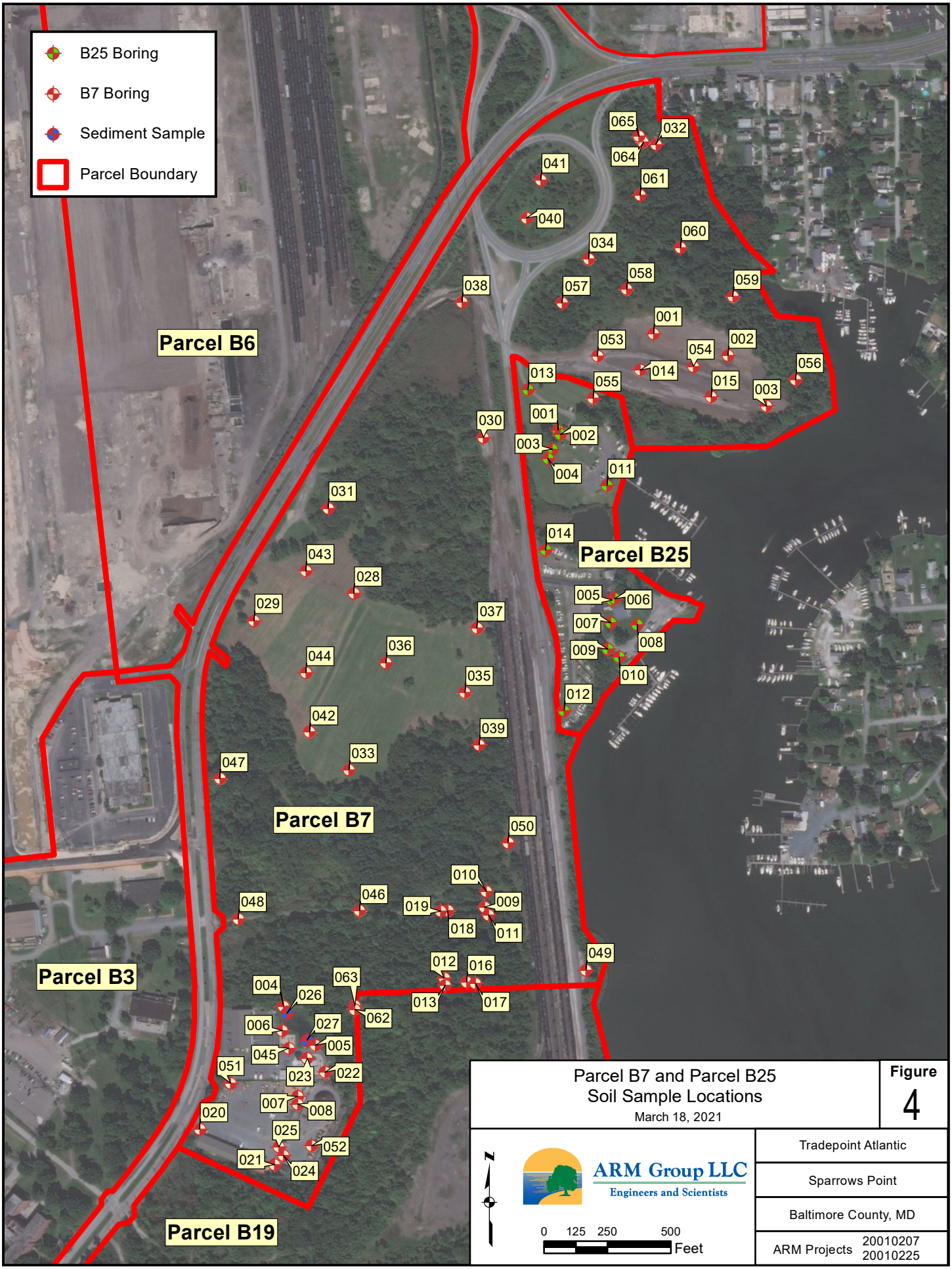
Parcel B7 (Northern Section)
Groundwater Samples & Area B Contour Map

March 18, 2021

Figure 3

ARM Group LLC
Engineers and Scientists

Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Project 20010207



Parcel B7 and Parcel B25
Soil Sample Locations
March 18, 2021

Figure
4

ARM Group LLC
Engineers and Scientists

Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Projects 20010207
20010225

Parcel B7 (Northern Section)
Visual Slag Delineation Locations

March 18, 2021

Figure 5

ARM Group LLC
Engineers and Scientists

Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Project 20010207

Parcel A10

B7-032-SB-1
B7-032-SB-2
B7-032-SB-5

B7-065-SB-1
B7-065-SB-2
B7-065-SB-5

B7-064-SB-1
B7-064-SB-2
B7-064-SB-5

B7-041-SB-1
B7-041-SB-2
B7-041-SB-5

B7-040-SB-1
Benz[a]anthracene: 479
Benzo[a]pyrene: 298
Benzo[b]fluoranthene: 464
Dibenz[a,h]anthracene: 35.7
Indeno[1,2,3-c,d]pyrene: 100
B7-040-SB-2
B7-040-SB-7

B7-061-SB-1
B7-061-SB-2
B7-061-SB-4

B7-060-SB-1
B7-060-SB-2
B7-060-SB-5

Parcel B6

B7-038-SB-1
B7-038-SB-2
B7-038-SB-8

B7-057-SB-1
B7-057-SB-2
B7-057-SB-5

B7-034-SB-1
B7-034-SB-2
B7-034-SB-7

B7-058-SB-1
B7-058-SB-2
B7-058-SB-5

B7-059-SB-1
B7-059-SB-2
B7-059-SB-5

B7-001-SB-1
B7-001-SB-2
B7-001-SB-5

B7-053-SB-1
B7-053-SB-2
B7-053-SB-5

B7-014-SB-1
B7-014-SB-2
B7-014-SB-5
B7-014-SB-10

B7-054-SB-1
B7-054-SB-2
B7-054-SB-5

B7-002-SB-1
B7-002-SB-2
B7-002-SB-9

B7-056-SB-1
B7-056-SB-2
B7-056-SB-5

B25-013-SB-1
B25-013-SB-2
B25-013-SB-6

B7-055-SB-1
B7-055-SB-2
B7-055-SB-5

B7-015-SB-1
B7-015-SB-2
B7-015-SB-5
B7-015-SB-10

B7-003-SB-1
B7-003-SB-2
B7-003-SB-6

B25-001-SB-1
B25-001-SB-2
B25-001-SB-4

B7-030-SB-1
B7-030-SB-2

B25-003-SB-1
B25-003-SB-2
B25-003-SB-4

B25-002-SB-1
B25-002-SB-2
B25-002-SB-5

B25-011-SB-1
B25-011-SB-2
B25-011-SB-4

B25-004-SB-1
B25-004-SB-2
B25-004-SB-4

B7-031-SB-1
B7-031-SB-2
B7-031-SB-5

Parcel B25

Parcel B7

B25-014-SB-1
B25-014-SB-2
B25-014-SB-9

B7-043-SB-1
B7-043-SB-2
B7-043-SB-4

B25-006-SB-1
Benzo[a]pyrene: 5.5
B25-006-SB-2
B25-006-SB-7

B7-028-SB-1
B7-028-SB-2

B25-005-SB-1
B25-005-SB-2
B25-005-SB-5

B7-029-SB-1
B7-029-SB-2
B7-029-SB-5

B7-037-SB-1
B7-037-SB-2
B7-037-SB-5

B25-007-SB-1
B25-007-SB-2
B25-007-SB-4

B25-008-SB-1
B25-008-SB-2
B25-008-SB-4

B7-036-SB-1
B7-036-SB-2
B7-036-SB-5

B7-044-SB-1
B7-044-SB-2
B7-044-SB-5

B25-009-SB-1
B25-009-SB-2
B25-009-SB-4.5

B25-010-SB-1
B25-010-SB-2
B25-010-SB-5

B7-035-SB-1
B7-035-SB-2
B7-035-SB-5

B25-012-SB-1
B25-012-SB-2
B25-012-SB-5

B7-042-SB-1
B7-042-SB-2
B7-042-SB-5

B7-039-SB-1
B7-039-SB-2
B7-039-SB-5

B7-033-SB-1
B7-033-SB-2
B7-033-SB-5

B7-047-SB-1
B7-047-SB-5

B7-050-SB-1
B7-050-SB-5

B7-010-SB-1
B7-010-SB-5

B7-046-SB-1
B7-046-SB-4

B7-018-SB-1
B7-018-SB-5

B7-009-SB-1
B7-009-SB-7

B7-048-SB-1
B7-048-SB-5

B7-019-SB-1
B7-019-SB-8

B7-011-SB-1
B7-011-SB-6

B7-049-SB-1
B7-049-SB-5

Parcel B3

B7-012-SB-1
B7-012-SB-5

B7-016-SB-1
B7-016-SB-8

B7-063-SB-1
Benzo[a]pyrene: 14.3
Benzo[b]fluoranthene: 28.4
B7-063-SB-8

B7-013-SB-1
B7-013-SB-4

B7-017-SB-1
B7-017-SB-4
B7-017-SB-10

B7-004-SB-1
B7-004-SB-5

B7-026-SD

B7-062-SB-1
Benz[a]anthracene: 53.2
Benzo[a]pyrene: 73.0
Benzo[b]fluoranthene: 97.6
Dibenz[a,h]anthracene: 8.4
Indeno[1,2,3-c,d]pyrene: 47.4
B7-062-SB-5

B7-006-SB-1
B7-006-SB-5

B7-027-SD

B7-005-SB-1
B7-005-SB-5

B7-045-SB-1.5
B7-045-SB-5

B7-051-SB-1
B7-051-SB-5

B7-023-SB-1.5
B7-023-SB-5
Benzo[a]pyrene: 28.8 J
Benzo[b]fluoranthene: 46.7 J
Dibenz[a,h]anthracene: 3.5 J

B7-022-SB-1.5
B7-022-SB-5

B7-007-SB-1
B7-007-SB-5
Benzo[a]pyrene: 2.5
B7-007-SB-10

B7-008-SB-1
B7-008-SB-4

B7-020-SB-1.5
B7-020-SB-5

B7-052-SB-1
B7-052-SB-4

B7-025-SB-1
B7-025-SB-4

B7-021-SB-1
B7-021-SB-4

B7-024-SB-1
B7-024-SB-4

Parcel B19

B25 Boring
B7 Boring
Sediment Sample
Parcel Boundary

Parcel B7 and Parcel B25
Soil SVOC PAL Exceedances (mg/kg)
March 18, 2021

Figure 6

N

ARM Group LLC
Engineers and Scientists

0 50 100 200 Feet

Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Projects 20010207 20010225

Parcel A10

Parcel B6

Parcel B7

Parcel B25

Parcel B19

Parcel B3

B7-065-SB-1
B7-065-SB-2
B7-065-SB-5

B7-032-SB-1
B7-032-SB-2
B7-032-SB-5

B7-041-SB-1
B7-041-SB-2
B7-041-SB-5

B7-064-SB-1
B7-064-SB-2
B7-064-SB-5

B7-040-SB-1
B7-040-SB-2
B7-040-SB-7

B7-061-SB-1
B7-061-SB-2
B7-061-SB-4

B7-060-SB-1
B7-060-SB-2
B7-060-SB-5

B7-034-SB-1
B7-034-SB-2
B7-034-SB-7

B7-058-SB-1
B7-058-SB-2
B7-058-SB-5

B7-059-SB-1
B7-059-SB-2
B7-059-SB-5

B7-038-SB-1
B7-038-SB-2
B7-038-SB-8

B7-057-SB-1
B7-057-SB-2
B7-057-SB-5

B7-001-SB-1
B7-001-SB-2
B7-001-SB-5

B7-053-SB-1
B7-053-SB-2
B7-053-SB-5

B7-014-SB-1
B7-014-SB-2
B7-014-SB-5
B7-014-SB-10

B7-002-SB-1
B7-002-SB-2
B7-002-SB-9

B7-056-SB-1
B7-056-SB-2
B7-056-SB-5

B25-013-SB-1
B25-013-SB-2
B25-013-SB-6

B7-054-SB-1
B7-054-SB-2
B7-054-SB-5

B7-003-SB-1
B7-003-SB-2
B7-003-SB-6

B25-001-SB-1
B25-001-SB-2
B25-001-SB-4

B7-055-SB-1
B7-055-SB-2
B7-055-SB-5

B7-015-SB-1
B7-015-SB-2
B7-015-SB-5
B7-015-SB-10

B25-003-SB-1
B25-003-SB-2
B25-003-SB-4

B25-002-SB-1
B25-002-SB-2
B25-002-SB-5

B7-030-SB-1
B7-030-SB-2

B25-011-SB-1
Oil & Grease: 18,600
B25-011-SB-2
B25-011-SB-4

B25-004-SB-1
B25-004-SB-2
B25-004-SB-4

B7-031-SB-1
B7-031-SB-2
B7-031-SB-5

B25-014-SB-1
B25-014-SB-2
B25-014-SB-9

B7-043-SB-1
B7-043-SB-2
B7-043-SB-4

B7-028-SB-1
B7-028-SB-2

B25-005-SB-1
B25-005-SB-2
B25-005-SB-5

B25-006-SB-1
B25-006-SB-2
B25-006-SB-7

B7-029-SB-1
B7-029-SB-2
B7-029-SB-5

B7-037-SB-1
B7-037-SB-2
B7-037-SB-5

B25-007-SB-1
B25-007-SB-2
B25-007-SB-4

B25-008-SB-1
B25-008-SB-2
B25-008-SB-4

B7-036-SB-1
B7-036-SB-2
B7-036-SB-5

B7-044-SB-1
B7-044-SB-2
B7-044-SB-5

B25-009-SB-1
B25-009-SB-2
B25-009-SB-4.5

B25-010-SB-1
B25-010-SB-2
B25-010-SB-5

B7-035-SB-1
B7-035-SB-2
B7-035-SB-5

B25-012-SB-1
B25-012-SB-2
B25-012-SB-5

B7-042-SB-1
B7-042-SB-2
B7-042-SB-5

B7-039-SB-1
B7-039-SB-2
B7-039-SB-5

B7-033-SB-1
B7-033-SB-2
B7-033-SB-5

B7-047-SB-1
B7-047-SB-5

B7-050-SB-1
B7-050-SB-5

B7-010-SB-1
B7-010-SB-5

B7-018-SB-1
B7-018-SB-5

B7-011-SB-1
B7-011-SB-6

B7-048-SB-1
Oil & Grease: 14,700
B7-048-SB-5

B7-046-SB-1
B7-046-SB-4

B7-019-SB-1
B7-019-SB-8

B7-009-SB-1
B7-009-SB-7

B7-049-SB-1
B7-049-SB-5

B7-012-SB-1
B7-012-SB-5

B7-016-SB-1
B7-016-SB-8

B7-004-SB-1
B7-004-SB-5

B7-063-SB-1
B7-063-SB-8

B7-013-SB-1
B7-013-SB-4

B7-017-SB-1
B7-017-SB-4
B7-017-SB-10

B7-026-SD

B7-006-SB-1
B7-006-SB-5

B7-062-SB-1
B7-062-SB-5

B7-027-SD

B7-005-SB-1
B7-005-SB-5

B7-045-SB-1.5
B7-045-SB-5

B7-022-SB-1.5
B7-022-SB-5

B7-051-SB-1
B7-051-SB-5

B7-023-SB-1.5
B7-023-SB-5

B7-007-SB-1
Oil & Grease: 6,780
B7-007-SB-5

B7-008-SB-1
B7-008-SB-4

B7-020-SB-1.5
B7-020-SB-5

B7-025-SB-1
B7-025-SB-4

B7-052-SB-1
B7-052-SB-4

B7-021-SB-1
B7-021-SB-4

B7-024-SB-1
B7-024-SB-4

B25 Boring
B7 Boring
Sediment Sample
Parcel Boundary

Parcel B7 and Parcel B25
Soil Oil & Grease PAL Exceedances (mg/kg)
March 18, 2021

Figure 7

ARM Group LLC
Engineers and Scientists

0 50 100 200 Feet

Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Projects 20010207 20010225

Parcel A10

Parcel B6

Parcel B7

Parcel B25

Parcel B3

Parcel B19

B7-064-SB-1
Arsenic: 5.2
B7-064-SB-2
Arsenic: 4.0
B7-064-SB-5

B7-065-SB-1
Arsenic: 4.4
B7-065-SB-2
B7-065-SB-5
Arsenic: 3.5

B7-032-SB-1
Arsenic: 6.3
B7-032-SB-2
Arsenic: 5.4
B7-032-SB-5
Arsenic: 6.4

B7-040-SB-1
Arsenic: 6.2
B7-040-SB-2
Arsenic: 4.9
B7-040-SB-7
Arsenic: 6.0
B7-040-SB-10
Arsenic: 5.3

B7-041-SB-1
Arsenic: 9.3
B7-041-SB-2
Arsenic: 13.7
B7-041-SB-5
Arsenic: 4.0

B7-061-SB-1
Arsenic: 5.7
B7-061-SB-2
Arsenic: 7.0
B7-061-SB-4
Arsenic: 3.9

B7-034-SB-1
Arsenic: 3.1
B7-034-SB-2
Arsenic: 3.4
B7-034-SB-7
Arsenic: 4.1

B7-060-SB-1
Arsenic: 7.7
B7-060-SB-2
Arsenic: 18.4
B7-060-SB-5
Arsenic: 6.6
B7-060-SB-10
Arsenic: 9.4

B7-059-SB-1
Arsenic: 5.5
B7-059-SB-2
Arsenic: 7.7
B7-059-SB-5
Arsenic: 5.2
B7-059-SB-10
Arsenic: 12.0

B7-057-SB-1
Arsenic: 8.6
B7-057-SB-2
Arsenic: 7.2
B7-057-SB-5
Arsenic: 4.4

B7-038-SB-1
Arsenic: 6.9
B7-038-SB-2
B7-038-SB-8

B7-058-SB-1
Arsenic: 4.2
B7-058-SB-2
Arsenic: 4.3
B7-058-SB-5

B7-001-SB-1
Arsenic: 9.2
B7-001-SB-2
Arsenic: 12.4
B7-001-SB-5

B7-054-SB-1
B7-054-SB-2
Arsenic: 5.5
B7-054-SB-5
Arsenic: 4.7
B7-054-SB-10
Arsenic: 3.2

B7-002-SB-1
Arsenic: 9.5
B7-002-SB-2
Arsenic: 5.7
B7-002-SB-9
Arsenic: 14.1
B7-002-SB-10
Arsenic: 13.4

B7-056-SB-1
Arsenic: 4.4
B7-056-SB-2
Arsenic: 6.4
B7-056-SB-5
Arsenic: 5.0
B7-056-SB-10
Arsenic: 18.9

B7-053-SB-1
B7-053-SB-2
Arsenic: 3.6
B7-053-SB-5
Arsenic: 6.7

B7-055-SB-1
Arsenic: 6.6
B7-055-SB-2
Arsenic: 5.3
B7-055-SB-5
Arsenic: 8.6
B7-055-SB-10
Arsenic: 7.9

B25-013-SB-1
Arsenic: 5.6
B25-013-SB-2
Arsenic: 4.9
B25-013-SB-6
Arsenic: 6.4

B7-014-SB-1
Arsenic: 3.3
B7-014-SB-2
Arsenic: 22.1
Manganese: 45,700
B7-014-SB-5
B7-014-SB-10
Arsenic: 7.5

B7-015-SB-1
Arsenic: 11.4
Manganese: 45,700
B7-015-SB-2
Arsenic: 9.3
Manganese: 52,200
B7-015-SB-5
Arsenic: 7.7
B7-015-SB-10

B7-003-SB-1
Arsenic: 19.9
B7-003-SB-2
Arsenic: 11.4
Manganese: 58,700
B7-003-SB-6
Arsenic: 7.3
B7-003-SB-10
Arsenic: 12.2

B25-001-SB-1
Arsenic: 3.5
B25-001-SB-2
Arsenic: 3.0
B25-001-SB-4
Arsenic: 4.0

B25-002-SB-1
Arsenic: 4.2
B25-002-SB-2
Arsenic: 4.7
B25-002-SB-5
Arsenic: 11.1

B25-011-SB-1
Arsenic: 3.9
B25-011-SB-2
Arsenic: 5.7
B25-011-SB-4
Arsenic: 8.6
B25-011-SB-10
Arsenic: 10.3

B7-030-SB-1
Arsenic: 4.6
Manganese: 28,000 J
B7-030-SB-2
Arsenic: 9.8

B25-004-SB-1
Arsenic: 5.6
B25-004-SB-2
Arsenic: 3.5
B25-004-SB-4
Arsenic: 4.5

B25-003-SB-1
Arsenic: 4.8
B25-003-SB-2
Arsenic: 6.3
B25-003-SB-4
Arsenic: 11.1

B7-031-SB-1
Arsenic: 9.8
B7-031-SB-2
Arsenic: 10.3
B7-031-SB-5
Arsenic: 20.5

B25-014-SB-1
Arsenic: 3.9
B25-014-SB-2
Arsenic: 6.3
B25-014-SB-9

B7-043-SB-1
Arsenic: 8.9
B7-043-SB-2
Arsenic: 8.0
B7-043-SB-4
Arsenic: 4.8

B7-028-SB-1
Arsenic: 5.2
B7-028-SB-2
Arsenic: 7.1

B7-029-SB-1
Arsenic: 3.8
B7-029-SB-2
B7-029-SB-5
Arsenic: 4.6

B25-005-SB-1
B25-005-SB-2
Arsenic: 4.6
B25-005-SB-5
Arsenic: 7.0

B25-006-SB-1
Arsenic: 11.1
B25-006-SB-2
Arsenic: 23.8
B25-006-SB-7

B7-037-SB-1
Arsenic: 6.6
B7-037-SB-2
Arsenic: 4.6
B7-037-SB-5

B7-036-SB-1
Arsenic: 16.3
B7-036-SB-2
Arsenic: 6.6
B7-036-SB-5
Arsenic: 4.6

B7-044-SB-1
Arsenic: 8.2
B7-044-SB-2
Arsenic: 8.5
B7-044-SB-5
Arsenic: 4.0

B7-035-SB-1
Arsenic: 7.2
B7-035-SB-2
Arsenic: 6.9
B7-035-SB-5
Arsenic: 3.9

B25-007-SB-1
Arsenic: 4.9
B25-007-SB-2
Arsenic: 4.5
B25-007-SB-4
Arsenic: 15.1

B25-008-SB-1
Arsenic: 3.4
B25-008-SB-2
Arsenic: 4.5
B25-008-SB-4
Arsenic: 3.5

B25-009-SB-1
Arsenic: 4.7
B25-009-SB-2
Arsenic: 3.7
B25-009-SB-4.5

B25-012-SB-1
Arsenic: 13.9
B25-012-SB-2
Arsenic: 5.1
B25-012-SB-5

B25-010-SB-1
Arsenic: 10.5
B25-010-SB-2
B25-010-SB-5
Arsenic: 5.2
B25-010-SB-10
Arsenic: 29.2

B7-042-SB-1
Arsenic: 5.6
B7-042-SB-2
Arsenic: 5.9
B7-042-SB-5
Arsenic: 4.1

B7-039-SB-1
Arsenic: 7.6
B7-039-SB-2
Arsenic: 7.7
B7-039-SB-5

B7-033-SB-1
Arsenic: 7.7
B7-033-SB-2
Arsenic: 8.6
B7-033-SB-5
Arsenic: 3.6

B7-047-SB-1
Arsenic: 3.2
B7-047-SB-5

B7-050-SB-1
B7-050-SB-5

B7-046-SB-1
Arsenic: 5.7
B7-046-SB-4
Arsenic: 7.2
B7-046-SB-10
Arsenic: 10.9

B7-018-SB-1
Arsenic: 3.2
B7-018-SB-5
Arsenic: 6.5

B7-010-SB-1
Arsenic: 10.2
B7-010-SB-5

B7-009-SB-1
Arsenic: 7.8
B7-009-SB-7
Arsenic: 4.2
B7-009-SB-10
Arsenic: 20.3

B7-048-SB-1
B7-048-SB-5
Arsenic: 11.0
B7-048-SB-10
Arsenic: 10.2

B7-019-SB-1
Arsenic: 3.8
B7-019-SB-8
Arsenic: 8.4

B7-016-SB-1
Arsenic: 4.4
B7-016-SB-8
Arsenic: 6.4
B7-016-SB-10
Arsenic: 4.9

B7-011-SB-1
Arsenic: 10.2
B7-011-SB-6
Arsenic: 5.5
B7-011-SB-10
Arsenic: 9.9

B7-049-SB-1
Arsenic: 3.2
B7-049-SB-5

B7-004-SB-1
Arsenic: 10.8
B7-004-SB-5
Arsenic: 6.4
B7-004-SB-10

B7-012-SB-1
Arsenic: 5.9
B7-012-SB-5

B7-013-SB-1
B7-013-SB-4

B7-063-SB-1
Arsenic: 4.5
B7-063-SB-8

B7-062-SB-1
B7-062-SB-5

B7-017-SB-1
Arsenic: 6.2
B7-017-SB-4
Arsenic: 4.0
B7-017-SB-10
Arsenic: 3.1

B7-006-SB-1
Arsenic: 3.8
B7-006-SB-5
Arsenic: 18.4

B7-026-SD
Arsenic: 5.2

B7-027-SD
Arsenic: 6.6

B7-005-SB-1
B7-005-SB-5
Arsenic: 5.4
B7-005-SB-10
Arsenic: 6.8

B7-045-SB-1.5
Arsenic: 64.8
Manganese: 125,000
B7-045-SB-5
Arsenic: 4.7
B7-045-SB-10

B7-023-SB-1.5
Arsenic: 3.5
B7-023-SB-5
Arsenic: 4.3

B7-022-SB-1.5
B7-022-SB-5

B7-051-SB-1
Arsenic: 6.2
B7-051-SB-5
Arsenic: 9.5

B7-007-SB-1
B7-007-SB-5
Arsenic: 3.5
B7-007-SB-10
Arsenic: 3.6

B7-008-SB-1
Arsenic: 3.2
B7-008-SB-4
Arsenic: 4.1

B7-020-SB-1.5
Arsenic: 4.1
B7-020-SB-5
Arsenic: 4.1
B7-020-SB-10
Arsenic: 3.5

B7-025-SB-1
B7-025-SB-4
Arsenic: 17.1

B7-052-SB-1
B7-052-SB-4

B7-021-SB-1
B7-021-SB-4
Arsenic: 4.0

B7-024-SB-1
Arsenic: 4.9
B7-024-SB-4
Arsenic: 4.7

B25 Boring
B7 Boring
Sediment Sample
Parcel Boundary

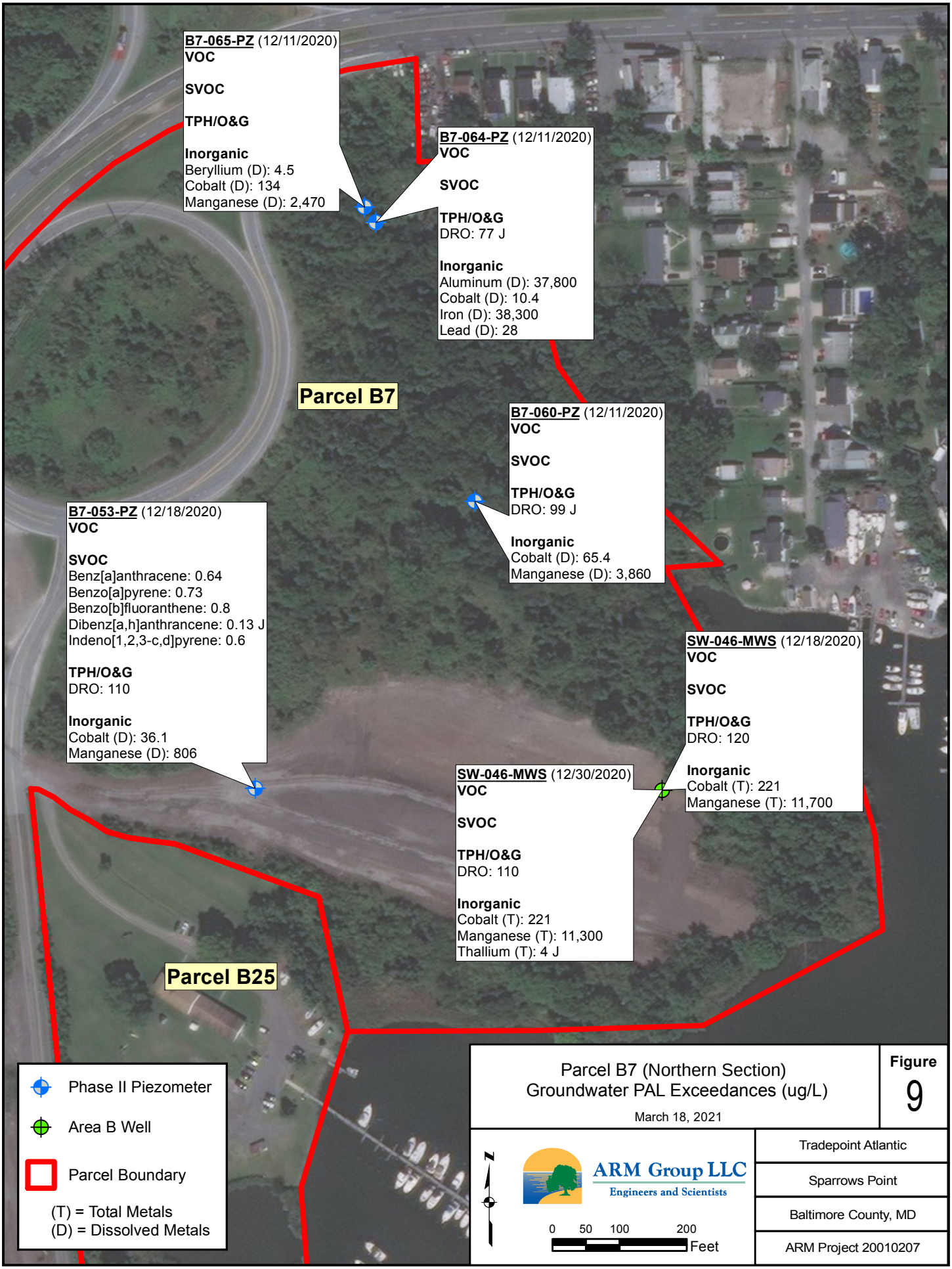
Parcel B7 and Parcel B25
Soil Inorganic PAL Exceedances (mg/kg)
March 18, 2021

Figure 8

ARM Group LLC
Engineers and Scientists

0 50 100 200 Feet

Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Projects 20010207 20010225


B7-065-PZ (12/11/2020)
VOC
SVOC
TPH/O&G
Inorganic
Beryllium (D): 4.5
Cobalt (D): 134
Manganese (D): 2,470
B7-064-PZ (12/11/2020)
VOC
SVOC
TPH/O&G
DRO: 77 J
Inorganic
Aluminum (D): 37,800
Cobalt (D): 10.4
Iron (D): 38,300
Lead (D): 28
Parcel B7
B7-060-PZ (12/11/2020)
VOC
SVOC
TPH/O&G
DRO: 99 J
Inorganic
Cobalt (D): 65.4
Manganese (D): 3,860
B7-053-PZ (12/18/2020)
VOC
SVOC
Benz[a]anthracene: 0.64
Benzo[a]pyrene: 0.73
Benzo[b]fluoranthene: 0.8
Dibenz[a,h]anthrancene: 0.13 J
Indeno[1,2,3-c,d]pyrene: 0.6
TPH/O&G
DRO: 110
Inorganic
Cobalt (D): 36.1
Manganese (D): 806
SW-046-MWS (12/18/2020)
VOC
SVOC
TPH/O&G
DRO: 120
Inorganic
Cobalt (T): 221
Manganese (T): 11,700
SW-046-MWS (12/30/2020)
VOC
SVOC
TPH/O&G
DRO: 110
Inorganic
Cobalt (T): 221
Manganese (T): 11,300
Thallium (T): 4 J
Parcel B25
Phase II Piezometer
Area B Well
Parcel Boundary
(T) = Total Metals
(D) = Dissolved Metals
Parcel B7 (Northern Section)
Groundwater PAL Exceedances (ug/L)
March 18, 2021
Figure
9
N
ARM Group LLC
Engineers and Scientists
0 50 100 200
Feet
Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Project 20010207

TABLES

Table 1 - Parcel B7 & Parcel B25
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.)	5029	8/25/1959	3/11/1982
		5030	8/2/1959	3/11/1982
		5035	9/1/1958	3/19/1982
		5036	*Unknown*	3/11/1982
		5041	6/15/1958	3/19/1982
		5042	*Unknown*	3/11/1982
		5047	1/17/1966	3/11/1958
Plant Index	Roads, water bodies, demolished buildings/structures, electric lines, above-ground pipelines	5129	*Unknown*	9/10/2009
		5130	*Unknown*	6/26/2008
		5135	*Unknown*	7/11/2008
		5136	*Unknown*	1/9/2008
		5141	*Unknown*	9/27/2010
		5142	*Unknown*	11/10/2008
		5147	*Unknown*	11/10/2008
Plant Sewer Lines	Same as above plus trenches, sumps, underground piping (includes pipe materials)	5529	8/26/1959	7/14/1992
		5530	8/15/1959	3/29/1976
		5535	*Unknown*	5/28/1976
		5536	3/24/1976	3/24/1976
		5541	9/6/1959	10/6/1993
		5542	9/11/1959	3/18/1976
		5547	9/11/1959	3/15/1976
Drip Legs	Coke Oven Gas Drip Legs Locations	5886B	*Unknown*	Sept. 1988
		OvsBw6328	*Unknown*	Sept. 1988

Table 2 - Parcel B7 & Parcel B25
Field Shifted Boring Locations

Location ID	Sample Target	Proposed Location*		Final Location*		Relocation Distance (ft.) & Direction	
		Northing	Easting	Northing	Easting		
B7-020-SB	Balt. Co Vehicle Maintenance Shops	566,465	1,462,775	566,468	1,462,794	20	E
B7-032-SB	General Coverage/Historic Golf Course	570,378	1,464,596	570,341	1,464,572	44	SW
B7-057-SB	General Coverage/Historic Golf Course	569,718	1,464,074	569,718	1,464,203	129	E
B7-064-SB	MDE Request	570,344	1,464,636	570,349	1,464,522	114	NW
B7-065-SB	MDE Request	570,420	1,464,558	570,372	1,464,505	91	SW
B25-003-SB	Playset Area - Plesant Yacht Club	569,158	1,464,163	569,141	1,464,163	16	S
B25-005-SB	Heating Oil AST - North Point Yacht Club	568,544	1,464,402	568,541	1,464,403	4	S
B25-006-SB	Heating Oil AST - North Point Yacht Club	568,577	1,464,411	568,574	1,464,411	25	S
B25-007-SB	Playset Area - North Point Yacht Club	568,458	1,464,389	568,455	1,464,389	6	S
B25-009-SB	Horseshoe Pits - North Point Yacht Club	568,341	1,464,364	568,353	1,464,382	22	NE

*Reported northings and eastings are not survey accurate. Coordinates are reported in NAD 1983 Maryland State Plane (US feet).

Table 3 - Parcel B7 & Parcel B25
Characterization Results for Solid IDW

Sample ID	Parameter	Result (mg/L)	Laboratory Flag	TCLP Limit (mg/L)	TCLP Exceedance
B25 Waste 10/31/18	1,1-Dichloroethene	0.05	U	0.7	no
	1,2-Dichloroethane	0.05	U	0.5	no
	1,4-Dichlorobenzene	0.5	U	7.5	no
	2,4,5-Trichlorophenol	5	U	400	no
	2,4,6-Trichlorophenol	0.1	U	2	no
	2,4-Dinitrotoluene	0.1	U	0.13	no
	2-Butanone (MEK)	0.1	U	200	no
	2-Methylphenol	2	U	200	no
	3&4-Methylphenol(m&p Cresol)	2	U	200	no
	Arsenic	0.025	U	5	no
	Barium	0.13		100	no
	Benzene	0.05	U	0.5	no
	Cadmium	0.015	U	1	no
	Carbon tetrachloride	0.05	U	0.5	no
	Chlorobenzene	0.05	U	100	no
	Chloroform	0.05	U	6	no
	Chromium	0.025	U	5	no
	Hexachlorobenzene	0.1	U	0.13	no
	Hexachloroethane	0.2	U	3	no
	Lead	0.025	U	5	no
	Mercury	0.001	U	0.2	no
	Nitrobenzene	0.1	U	2	no
	Pentachlorophenol	5	U	100	no
	Selenium	0.04	U	1	no
	Silver	0.03	U	5	no
	Tetrachloroethene	0.05	U	0.7	no
	Trichloroethene	0.05	U	0.5	no
	Vinyl chloride	0.05	U	0.2	no

Table 3 - Parcel B7 & Parcel B25
Characterization Results for Solid IDW

Sample ID	Parameter	Result (mg/L)	Laboratory Flag	TCLP Limit (mg/L)	TCLP Exceedance
B7 waste 6/19/19	1,1-Dichloroethene	0.05	U	0.7	no
	1,2-Dichloroethane	0.05	U	0.5	no
	1,4-Dichlorobenzene	0.5	U	7.5	no
	2,4,5-Trichlorophenol	5	U	400	no
	2,4,6-Trichlorophenol	0.1	U	2	no
	2,4-Dinitrotoluene	0.1	U	0.13	no
	2-Butanone (MEK)	0.1	U	200	no
	2-Methylphenol	2	U	200	no
	3&4-Methylphenol(m&p Cresol)	2	U	200	no
	Arsenic	0.025	U	5	no
	Barium	0.44		100	no
	Benzene	0.05	U	0.5	no
	Cadmium	0.0021	J	1	no
	Carbon tetrachloride	0.05	U	0.5	no
	Chlorobenzene	0.0515	B	100	no
	Chloroform	0.05	U	6	no
	Chromium	0.0019	J	5	no
	Hexachlorobenzene	0.1	U	0.13	no
	Hexachloroethane	0.2	U	3	no
	Lead	0.12	U	5	no
	Mercury	0.001	U	0.2	no
	Nitrobenzene	0.1	U	2	no
	Pentachlorophenol	5	U	100	no
	Selenium	0.04	U	1	no
	Silver	0.03	U	5	no
	Tetrachloroethene	0.05	U	0.7	no
	Trichloroethene	0.05	U	0.5	no
	Vinyl chloride	0.05	U	0.2	no

Table 3 - Parcel B7 & Parcel B25
Characterization Results for Solid IDW

Sample ID	Parameter	Result (mg/L)	Laboratory Flag	TCLP Limit (mg/L)	TCLP Exceedance
B7 WASTE 10/25/19	1,1-Dichloroethene	0.05	U	0.7	no
	1,2-Dichloroethane	0.05	U	0.5	no
	1,4-Dichlorobenzene	0.5	U	7.5	no
	2,4,5-Trichlorophenol	5	U	400	no
	2,4,6-Trichlorophenol	0.1	U	2	no
	2,4-Dinitrotoluene	0.1	U	0.13	no
	2-Butanone (MEK)	0.1	U	200	no
	2-Methylphenol	2	U	200	no
	3&4-Methylphenol(m&p Cresol)	2	U	200	no
	Arsenic	0.025	U	5	no
	Barium	0.35		100	no
	Benzene	0.05	U	0.5	no
	Cadmium	0.015	U	1	no
	Carbon tetrachloride	0.05	U	0.5	no
	Chlorobenzene	0.05	U	100	no
	Chloroform	0.05	U	6	no
	Chromium	0.025	U	5	no
	Hexachlorobenzene	0.1	U	0.13	no
	Hexachloroethane	0.2	U	3	no
	Lead	0.12	U	5	no
	Mercury	0.001	U	0.2	no
	Nitrobenzene	0.1	U	2	no
	Pentachlorophenol	5	U	100	no
	Selenium	0.04	U	1	no
	Silver	0.03	U	5	no
	Tetrachloroethene	0.05	U	0.7	no
	Trichloroethene	0.05	U	0.5	no
	Vinyl chloride	0.05	U	0.2	no

Table 3 - Parcel B7 & Parcel B25
Characterization Results for Solid IDW

Sample ID	Parameter	Result (mg/L)	Laboratory Flag	TCLP Limit (mg/L)	TCLP Exceedance
B7 IDW 1/6/21	1,1-Dichloroethene	0.017	U	0.7	no
	1,2-Dichloroethane	0.017	U	0.5	no
	1,4-Dichlorobenzene	0.017	U	7.5	no
	2,4,5-Trichlorophenol	0.1	U	400	no
	2,4,6-Trichlorophenol	0.1	U	2	no
	2,4-Dinitrotoluene	0.1	U	0.13	no
	2-Butanone (MEK)	0.035	U	200	no
	2-Methylphenol	0.1	U	200	no
	Arsenic	0.5	U	5	no
	Barium	10	U	100	no
	Benzene	0.017	U	0.5	no
	Cadmium	0.1	U	1	no
	Carbon tetrachloride	0.017	U	0.5	no
	Chlorobenzene	0.017	U	100	no
	Chloroform	0.017	U	6	no
	Chromium	0.5	U	5	no
	Hexachlorobenzene	0.1	U	0.13	no
	Hexachloroethane	0.1	U	3	no
	Lead	0.5	U	5	no
	Mercury	0.02	U	0.2	no
	Nitrobenzene	0.1	U	2	no
	Pentachlorophenol	0.5	U	100	no
	Selenium	0.1	U	1	no
	Silver	0.5	U	5	no
	Tetrachloroethene	0.017	U	0.7	no
	Trichloroethene	0.017	U	0.5	no
	Vinyl chloride	0.017	U	0.2	no

J: The positive result for this analyte is a quantitative estimate.
B: This analyte was not detected substantially above the associated method blank or field blank.
U: The analyte was not detected in the sample. This numeric value represents the quantitation limit.
TCLP: Toxicity Characteristic Leaching Procedure

Table 4 - Parcel B7 & Parcel B25
Characterization Results for Liquid IDW

Sample ID	Parameter	Result (mg/L)	Laboratory Flag	TCLP Limit (mg/L)	TCLP Exceedance
Water Waste 10/31/18	1,1-Dichloroethene	0.001	U	0.7	no
	1,2-Dichloroethane	0.0014		0.5	no
	1,4-Dichlorobenzene	0.001	U	7.5	no
	2,4,5-Trichlorophenol	0.0025	U	400	no
	2,4,6-Trichlorophenol	0.00099	U	2	no
	2,4-Dinitrotoluene	0.00099	U	0.13	no
	2-Butanone (MEK)	0.01	U	200	no
	2-Methylphenol	0.00099	U	200	no
	3&4-Methylphenol(m&p Cresol)	0.00023	J	200	no
	Arsenic	0.005	U	5	no
	Barium	0.0677		100	no
	Benzene	0.0663		0.5	no
	Cadmium	0.003	U	1	no
	Carbon tetrachloride	0.001	U	0.5	no
	Chlorobenzene	0.001	U	100	no
	Chloroform	0.001	U	6	no
	Chromium	0.0249		5	no
	Hexachlorobenzene	0.00099	U	0.13	no
	Hexachloroethane	0.00099	U	3	no
	Lead	0.0103		5	no
	Mercury	0.0002	U	0.2	no
	Nitrobenzene	0.00099	U	2	no
	Pentachlorophenol	0.0025	U	100	no
	Selenium	0.008	U	1	no
	Silver	0.006	U	5	no
	Tetrachloroethene	0.001	U	0.7	no
	Trichloroethene	0.001	U	0.5	no
	Vinyl chloride	0.001	U	0.2	no

Table 4 - Parcel B7 & Parcel B25
Characterization Results for Liquid IDW

Sample ID	Parameter	Result (mg/L)	Laboratory Flag	TCLP Limit (mg/L)	TCLP Exceedance
Water waste 1 6/19/19	1,1-Dichloroethene	0.001	U	0.7	no
	1,2-Dichloroethane	0.001	U	0.5	no
	1,4-Dichlorobenzene	0.001	U	7.5	no
	2,4,5-Trichlorophenol	0.0026	U	400	no
	2,4,6-Trichlorophenol	0.001	U	2	no
	2,4-Dinitrotoluene	0.001	U	0.13	no
	2-Butanone (MEK)	0.0046	J	200	no
	2-Methylphenol	0.001	U	200	no
	3&4-Methylphenol(m&p Cresol)	0.0021	U	200	no
	Arsenic	0.0137		5	no
	Barium	0.108		100	no
	Benzene	0.0024		0.5	no
	Cadmium	0.0313		1	no
	Carbon tetrachloride	0.001	U	0.5	no
	Chlorobenzene	0.001	U	100	no
	Chloroform	0.001	U	6	no
	Chromium	0.0034	J	5	no
	Hexachlorobenzene	0.001	U	0.13	no
	Hexachloroethane	0.001	U	3	no
	Lead	0.005	U	5	no
	Mercury	0.0002	U	0.2	no
	Nitrobenzene	0.001	U	2	no
	Pentachlorophenol	0.0026	U	100	no
	Selenium	0.0244		1	no
	Silver	0.006	U	5	no
	Tetrachloroethene	0.001	U	0.7	no
	Trichloroethene	0.001	U	0.5	no
	Vinyl chloride	0.001	U	0.2	no

Table 4 - Parcel B7 & Parcel B25
Characterization Results for Liquid IDW

Sample ID	Parameter	Result (mg/L)	Laboratory Flag	TCLP Limit (mg/L)	TCLP Exceedance
Water waste 2 6/19/19	1,1-Dichloroethene	0.001	U	0.7	no
	1,2-Dichloroethane	0.001	U	0.5	no
	1,4-Dichlorobenzene	0.001	U	7.5	no
	2,4,5-Trichlorophenol	0.0026	U	400	no
	2,4,6-Trichlorophenol	0.001	U	2	no
	2,4-Dinitrotoluene	0.001	U	0.13	no
	2-Butanone (MEK)	0.01	U	200	no
	2-Methylphenol	0.001	U	200	no
	3&4-Methylphenol(m&p Cresol)	0.002	U	200	no
	Arsenic	0.005	U	5	no
	Barium	0.0414		100	no
	Benzene	0.0026		0.5	no
	Cadmium	0.0014	J	1	no
	Carbon tetrachloride	0.001	U	0.5	no
	Chlorobenzene	0.001	U	100	no
	Chloroform	0.001	U	6	no
	Chromium	0.0029	J	5	no
	Hexachlorobenzene	0.001	U	0.13	no
	Hexachloroethane	0.001	U	3	no
	Lead	0.005	U	5	no
	Mercury	0.0002	U	0.2	no
	Nitrobenzene	0.001	U	2	no
	Pentachlorophenol	0.0026	U	100	no
	Selenium	0.008	U	1	no
	Silver	0.006	U	5	no
	Tetrachloroethene	0.001	U	0.7	no
	Trichloroethene	0.001	U	0.5	no
	Vinyl chloride	0.001	U	0.2	no

Table 4 - Parcel B7 & Parcel B25
Characterization Results for Liquid IDW

Sample ID	Parameter	Result (mg/L)	Laboratory Flag	TCLP Limit (mg/L)	TCLP Exceedance
WASTE WATER 1247-1281 10/25/19	1,1-Dichloroethene	0.01	U	0.7	no
	1,2-Dichloroethane	0.01	U	0.5	no
	1,4-Dichlorobenzene	0.01	U	7.5	no
	2,4,5-Trichlorophenol	0.0024	U	400	no
	2,4,6-Trichlorophenol	0.00097	U	2	no
	2,4-Dinitrotoluene	0.00097	U	0.13	no
	2-Butanone (MEK)	0.1	U	200	no
	2-Methylphenol	0.0028		200	no
	3&4-Methylphenol(m&p Cresol)	0.0019	U	200	no
	Arsenic	0.0154		5	no
	Barium	0.242		100	no
	Benzene	0.394		0.5	no
	Cadmium	0.0062		1	no
	Carbon tetrachloride	0.01	U	0.5	no
	Chlorobenzene	0.01	U	100	no
	Chloroform	0.01	U	6	no
	Chromium	0.156		5	no
	Hexachlorobenzene	0.00097	U	0.13	no
	Hexachloroethane	0.00097	U	3	no
	Lead	0.129		5	no
	Mercury	0.00051		0.2	no
	Nitrobenzene	0.00097	U	2	no
	Pentachlorophenol	0.0024	U	100	no
	Selenium	0.008	U	1	no
	Silver	0.006	U	5	no
	Tetrachloroethene	0.01	U	0.7	no
	Trichloroethene	0.01	U	0.5	no
	Vinyl chloride	0.01	U	0.2	no

Table 4 - Parcel B7 & Parcel B25
Characterization Results for Liquid IDW

Sample ID	Parameter	Result (mg/L)	Laboratory Flag	TCLP Limit (mg/L)	TCLP Exceedance
B7 Liquid IDW 1/6/21	1,1-Dichloroethene	0.005	U	0.7	no
	1,2-Dichloroethane	0.005	U	0.5	no
	1,4-Dichlorobenzene	0.005	U	7.5	no
	2,4,5-Trichlorophenol	0.001	U	400	no
	2,4,6-Trichlorophenol	0.001	U	2	no
	2,4-Dinitrotoluene	0.001	U	0.13	no
	2-Butanone (MEK)	0.025	U	200	no
	2-Methylphenol	0.001	U	200	no
	4-Methylphenol	0.001	U	200	no
	Arsenic	0.019		5	no
	Benzene	0.001	U	0.5	no
	Cadmium	0.044		1	no
	Carbon tetrachloride	0.005	U	0.5	no
	Chlorobenzene	0.005	U	100	no
	Chloroform	0.005	U	6	no
	Chromium	0.066		5	no
	Hexachlorobenzene	0.001	U	0.13	no
	Hexachloroethane	0.001	U	3	no
	Lead	0.038		5	no
	Mercury	0.001	U	0.2	no
	Nitrobenzene	0.001	U	2	no
	Pentachlorophenol	0.005	U	100	no
	Selenium	0.0062		1	no
	Silver	0.005	U	5	no
	Tetrachloroethene	0.005	U	0.7	no
	Trichloroethene	0.005	U	0.5	no
	Vinyl chloride	0.001	U	0.2	no

J: The positive result for this analyte is a quantitative estimate.
U: The analyte was not detected in the sample. This numeric value represents the quantitation limit.
TCLP: Toxicity Characteristic Leaching Procedure

Table 5 - Parcel B7 & Parcel B25
Summary of Organics Detected in Soil

Parameter	Units	PAL	B25-001-SB-1* 10/17/2018	B25-001-SB-2* 10/17/2018	B25-001-SB-4* 10/17/2018	B25-002-SB-1* 10/17/2018	B25-002-SB-2* 10/17/2018	B25-002-SB-5* 10/17/2018	B25-003-SB-1* 10/17/2018	B25-003-SB-2* 10/17/2018	B25-003-SB-4* 10/17/2018	B25-004-SB-1* 10/18/2018	B25-004-SB-2* 10/18/2018	B25-004-SB-4* 10/18/2018	B25-005-SB-1 10/19/2018	B25-005-SB-2 10/19/2018
Volatile Organic Compounds																
1,2-Dichlorobenzene	mg/kg	9,300	0.0046 U	0.005 U	0.0049 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Butanone (MEK)	mg/kg	190,000	0.0091 U	0.0099 U	0.0098 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acetone	mg/kg	670,000	0.0091 U	**0.016**	0.0098 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	mg/kg	5.1	0.0046 U	0.005 U	0.0049 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbon disulfide	mg/kg	3,500	0.0046 U	0.005 U	0.0049 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyclohexane	mg/kg	27,000	0.0091 U	0.0099 U	0.0098 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	mg/kg	25	**0.032**	**0.0041 J**	**0.033**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methyl tert-butyl ether (MTBE)	mg/kg	210	0.0046 U	0.005 U	0.0049 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	mg/kg	47,000	0.0046 U	0.005 U	0.0049 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes	mg/kg	2,800	**0.21**	**0.027**	**0.18**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-Volatile Organic Compounds^																
1,1-Biphenyl	mg/kg	200	0.075 U	0.08 U	0.078 U	0.077 U	0.077 U	**0.071 J**	0.079 U	0.078 U	0.078 U	0.082 U	0.078 U	0.079 U	0.082 U	0.076 U
2,4-Dinitrophenol	mg/kg	1,600	0.19 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
2,4-Dinitrotoluene	mg/kg	7.4	0.075 U	0.08 U	0.078 U	0.077 U	0.077 U	**0.053 J**	0.079 U	0.078 U	0.078 U	0.082 U	0.078 U	0.079 U	0.082 U	0.076 U
2-Methylnaphthalene	mg/kg	3,000	**0.0022 J**	0.0079 U	0.008 U	0.0076 U	0.0077 U	**0.11**	0.0081 U	0.008 U	0.0078 U	**0.0043 J**	0.0079 U	0.0079 U	**0.023**	**0.0066 J**
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.15 U	0.16 U	0.16 U	0.15 U	0.15 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.15 U
Acenaphthene	mg/kg	45,000	0.0076 U	0.0079 U	0.008 U	0.0076 U	0.0077 U	**0.01**	0.0081 U	0.008 U	0.0078 U	0.0082 U	0.0079 U	0.0079 U	**0.0031 J**	**0.00077 J**
Acenaphthylene	mg/kg	45,000	**0.0011 J**	0.0079 U	0.008 U	0.0076 U	0.0077 U	**0.002 J**	0.0081 U	0.008 U	0.0078 U	**0.0018 J**	0.0079 U	0.0079 U	**0.15**	**0.0032 J**
Acetophenone	mg/kg	120,000	0.075 U	0.08 U	0.078 U	0.077 U	0.077 U	**0.024 J**	0.079 U	0.078 U	0.078 U	0.082 U	0.078 U	0.079 U	0.082 U	0.076 U
Anthracene	mg/kg	230,000	**0.0017 J**	0.0079 U	0.008 U	0.0076 U	0.0077 U	**0.011**	0.0081 U	0.008 U	0.0078 U	**0.0022 J**	0.0079 U	0.0079 U	**0.044**	**0.0039 J**
Benz[a]anthracene	mg/kg	21	**0.009**	0.0079 U	**0.0013 J**	**0.0028 J**	0.0077 U	0.008 U	**0.0017 J**	**0.0011 J**	**0.0013 J**	**0.014**	0.0079 U	**0.0011 J**	**0.21 J**	**0.029**
Benzaldehyde	mg/kg	120,000	0.075 U	0.08 U	0.078 U	0.077 U	0.077 U	0.079 U	0.079 U	0.078 U	0.078 U	0.082 U	0.078 U	0.079 U	**0.04 J**	**0.018 J**
Benzo[a]pyrene	mg/kg	2.1	**0.0081**	0.0079 U	**0.00063 J**	**0.002 J**	0.0077 U	0.008 U	**0.001 J**	0.008 U	**0.00049 J**	**0.013**	0.0079 U	0.0079 U	**0.31 J**	**0.029**
Benzo[b]fluoranthene	mg/kg	21	**0.011**	0.0079 U	**0.0012 J**	**0.0037 J**	0.0077 U	0.008 U	**0.0013 J**	0.008 U	0.0078 U	**0.017**	0.0079 U	0.0079 U	**0.6 J**	**0.052**
Benzo[g,h,i]perylene	mg/kg		**0.0063 J**	0.0079 U	0.008 U	0.0076 U	0.0077 U	0.008 U	0.0081 U	0.008 U	0.0078 U	**0.0087**	0.0079 U	0.0079 U	**0.2 J**	**0.023**
Benzo[k]fluoranthene	mg/kg	210	**0.0052 J**	0.0079 U	0.008 U	**0.0035 J**	0.0077 U	0.008 U	0.0081 U	0.008 U	0.0078 U	**0.0075 J**	0.0079 U	0.0079 U	**0.22 J**	**0.046**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.075 U	0.08 U	0.078 U	0.077 U	0.077 U	0.079 U	0.079 U	0.078 U	0.078 U	0.082 U	0.078 U	0.079 U	**0.19**	0.076 U
Caprolactam	mg/kg	400,000	0.19 U	0.2 U	0.2 U	0.19 U	0.19 U	**0.44**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
Carbazole	mg/kg		0.075 U	0.08 U	0.078 U	0.077 U	0.077 U	0.079 U	0.079 U	0.078 U	0.078 U	0.082 U	0.078 U	0.079 U	**0.068 J**	**0.089**
Chrysene	mg/kg	2,100	**0.0088**	0.0079 U	**0.00054 J**	**0.002 J**	0.0077 U	**0.00049 J**	**0.00097 J**	**0.00043 J**	**0.00054 J**	**0.014**	0.0079 U	0.0079 U	**0.32 J**	**0.032**
Dibenz[a,h]anthracene	mg/kg	2.1	**0.0018 J**	0.0079 U	0.008 U	0.0076 U	0.0077 U	0.008 U	0.0081 U	0.008 U	0.0078 U	**0.0028 J**	0.0079 U	0.0079 U	**0.061 J**	**0.0074 J**
Di-n-butylphthalate	mg/kg	82,000	0.075 U	0.08 U	0.078 U	0.077 U	0.077 U	0.079 U	0.079 U	0.078 U	0.078 U	0.082 U	0.078 U	0.079 U	0.082 U	0.076 U
Di-n-ocytlphthalate	mg/kg	8,200	0.075 U	0.08 U	0.078 U	0.077 U	0.077 U	0.079 U	0.079 U	0.078 U	0.078 U	0.082 U	0.078 U	0.079 U	0.082 U	0.076 U
Fluoranthene	mg/kg	30,000	**0.016**	0.0079 U	**0.00093 J**	**0.0036 J**	0.0077 U	**0.0018 J**	**0.0015 J**	0.008 U	**0.0011 J**	**0.025**	0.0079 U	**0.0013 J**	**0.31**	**0.043**
Fluorene	mg/kg	30,000	0.0076 U	0.0079 U	0.008 U	0.0076 U	0.0077 U	**0.014**	0.0081 U	0.008 U	0.0078 U	0.0082 U	0.0079 U	0.0079 U	**0.0079 J**	**0.0012 J**
Hexachloroethane	mg/kg	8	0.075 U	0.08 U	0.078 U	0.077 U	0.077 U	**0.043 J**	0.079 U	0.078 U	0.078 U	0.082 U	0.078 U	0.079 U	0.082 U	0.076 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	**0.0054 J**	0.0079 U	0.008 U	0.0076 U	0.0077 U	0.008 U	0.0081 U	0.008 U	0.0078 U	**0.0082 J**	0.0079 U	0.0079 U	**0.2 J**	**0.021**
Naphthalene	mg/kg	8.6	**0.014**	**0.013**	**0.003 J**	0.0076 U	0.0077 U	**0.015**	0.0081 U	0.008 U	0.0078 U	**0.014**	0.0079 U	0.0079 U	**0.23**	**0.0071 J**
N-Nitroso-di-n-propylamine	mg/kg	0.33	0.075 U	0.08 U	0.078 U	0.077 U	0.077 U	0.079 U	0.079 U	0.078 U	0.078 U	0.082 U	0.078 U	0.079 U	0.082 U	0.076 U
N-Nitrosodiphenylamine	mg/kg	470	0.075 U	0.08 U	0.078 U	0.077 U	0.077 U	**0.075 J**	0.079 U	0.078 U	0.078 U	0.082 U	0.078 U	0.079 U	0.082 U	0.076 U
Phenanthrene	mg/kg		**0.0078**	0.0079 U	**0.00084 J**	**0.0017 J**	0.0077 U	**0.039**	**0.00083 J**	0.008 U	0.0078 U	**0.011**	0.0079 U	**0.0014 J**	**0.18**	**0.019**
Phenol	mg/kg	250,000	0.075 U	0.08 U	0.078 U	0.077 U	0.077 U	0.079 U	0.079 U	0.078 U	0.078 U	0.082 U	0.078 U	0.079 U	0.082 U	0.076 U
Pyrene	mg/kg	23,000	**0.014**	0.0079 U	0.008 U	**0.0031 J**	0.0077 U	**0.019**	**0.0015 J**	0.008 U	**0.00099 J**	**0.024**	0.0079 U	**0.0011 J**	**0.26**	**0.04**
PCBs																
Aroclor 1248	mg/kg	0.94	0.019 U	N/A	N/A	0.019 U	N/A	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A	0.021 U	N/A
Aroclor 1254	mg/kg	0.97	0.019 U	N/A	N/A	0.019 U	N/A	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A	0.021 U	N/A
Aroclor 1260	mg/kg	0.99	0.019 U	N/A	N/A	0.019 U	N/A	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A	0.021 UJ	N/A
Aroclor 1268	mg/kg		**0.013 J**	N/A	N/A	0.019 U	N/A	N/A	**0.0063 J**	N/A	N/A	0.02 U	N/A	N/A	0.021 UJ	N/A
PCBs (total)	mg/kg	0.97	0.17 U	N/A	N/A	0.17 U	N/A	N/A	0.18 U	N/A	N/A	0.18 U	N/A	N/A	0.19 U	N/A
TPH/Oil & Grease																
Diesel Range Organics	mg/kg	6,200	**14.8**	**9**	8 U	**5.7 J**	7.9 U	**84.3**	**5.1 J**	7.9 U	**4.7 J**	**15.4**	**5.1 J**	**4.9 J**	**28.4 J**	**10.3 J**
Gasoline Range Organics	mg/kg	6,200	**6.2 J**	10.4 U	**2.1 J**	9.3 U	13 U	**1.9 J**	11.8 U	11.3 U	9.3 U	12.7 U	11.4 U	11.3 U	21.6 U	11.6 U
Oil & Grease	mg/kg	6,200	**552**	**533**	**576**	**513**	**541**	**542**	**547**	**549**	**485**	**550**	**591**	**663**	**1,010**	**543**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A indicates that the parameter was not analyzed for this sample
*indicates non-validated data
^PAH compounds were analyzed via SIM

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.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 5 - Parcel B7 & Parcel B25
Summary of Organics Detected in Soil

Parameter	Units	PAL	B25-005-SB-5 10/19/2018	B25-006-SB-1 10/19/2018	B25-006-SB-2 10/19/2018	B25-006-SB-7 10/19/2018	B25-007-SB-1 10/19/2018	B25-007-SB-2 10/19/2018	B25-007-SB-4 10/19/2018	B25-008-SB-1 10/19/2018	B25-008-SB-2 10/19/2018	B25-008-SB-4 10/19/2018	B25-009-SB-1 10/19/2018	B25-009-SB-2 10/19/2018	B25-009-SB-4.5 10/19/2018	B25-010-SB-1 10/19/2018	B25-010-SB-2 10/19/2018
Volatile Organic Compounds																	
1,2-Dichlorobenzene	mg/kg	9,300	N/A	N/A	0.0049 U	N/A	N/A	N/A	0.0045 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Butanone (MEK)	mg/kg	190,000	N/A	N/A	0.0099 U	N/A	N/A	N/A	0.009 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acetone	mg/kg	670,000	N/A	N/A	0.0099 U	N/A	N/A	N/A	**0.0096**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	mg/kg	5.1	N/A	N/A	0.0049 U	N/A	N/A	N/A	0.0045 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbon disulfide	mg/kg	3,500	N/A	N/A	0.0049 UJ	N/A	N/A	N/A	0.0045 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyclohexane	mg/kg	27,000	N/A	N/A	0.0099 U	N/A	N/A	N/A	0.009 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	mg/kg	25	N/A	N/A	0.0049 U	N/A	N/A	N/A	0.0045 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methyl tert-butyl ether (MTBE)	mg/kg	210	N/A	N/A	0.0049 U	N/A	N/A	N/A	0.0045 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	mg/kg	47,000	N/A	N/A	0.0049 U	N/A	N/A	N/A	0.0045 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes	mg/kg	2,800	N/A	N/A	0.015 U	N/A	N/A	N/A	0.014 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-Volatile Organic Compounds^																	
1,1-Biphenyl	mg/kg	200	0.081 U	**0.16 J**	0.081 U	0.076 U	0.088 U	0.077 U	0.076 U	0.076 U	0.077 U	0.078 U	0.078 U	0.079 U	0.076 U	0.083 U	0.079 U
2,4-Dinitrophenol	mg/kg	1,600	0.2 U	2 U	0.2 U	0.19 U	0.22 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.19 U	0.21 U	0.2 U
2,4-Dinitrotoluene	mg/kg	7.4	0.081 U	0.79 U	0.081 U	0.076 U	0.088 U	0.077 U	0.076 U	0.076 U	0.077 U	0.078 U	0.078 U	0.079 U	0.076 U	0.083 U	0.079 U
2-Methylnaphthalene	mg/kg	3,000	0.0081 U	**1.1**	**0.0065 J**	0.0078 U	**0.023**	0.0077 U	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.0082**	0.0079 U	0.0076 U	**0.029 J**	**0.0023 J**
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.16 U	1.6 U	0.16 U	0.15 U	0.18 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16 U	0.16 U	0.16 U	0.15 U	0.17 U	0.16 U
Acenaphthene	mg/kg	45,000	0.0081 U	**0.084**	**0.0012 J**	0.0078 U	**0.0033 J**	0.0077 U	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.0011 J**	0.0079 U	0.0076 U	**0.0033 J**	0.0078 U
Acenaphthylene	mg/kg	45,000	0.0081 U	**2.1**	**0.0044 J**	0.0078 U	**0.007 J**	0.0077 U	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.0027 J**	0.0079 U	0.0076 U	**0.0075 J**	**0.002 J**
Acetophenone	mg/kg	120,000	0.081 U	0.79 U	0.081 U	0.076 U	0.088 U	0.077 U	0.076 U	0.076 U	0.077 U	0.078 U	0.078 U	0.079 U	0.076 U	0.083 U	0.079 U
Anthracene	mg/kg	230,000	0.0081 U	**1.4**	**0.0072 J**	0.0078 U	**0.015**	**0.00075 J**	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.0045 J**	0.0079 U	0.0076 U	**0.013 J**	**0.0017 J**
Benz[a]anthracene	mg/kg	21	0.0081 U	**5.9**	**0.061**	**0.0094**	**0.074 J**	**0.0052 J**	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.028**	**0.0025 J**	0.0076 U	**0.053 J**	**0.0024 J**
Benzaldehyde	mg/kg	120,000	0.081 U	0.79 U	0.081 U	0.076 U	**0.17**	0.077 U	0.076 U	0.076 U	0.077 U	0.078 U	0.078 U	0.079 U	0.076 U	**0.036 J**	0.079 U
Benzo[a]pyrene	mg/kg	2.1	0.0081 U	**5.5**	**0.067**	**0.025**	**0.11 J**	**0.0038 J**	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.025**	**0.0014 J**	0.0076 U	**0.053**	**0.0024 J**
Benzo[b]fluoranthene	mg/kg	21	0.0081 U	**8.9**	**0.095**	**0.046**	**0.24 J**	**0.0052 J**	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.036**	**0.0024 J**	0.0076 U	**0.078**	**0.0088**
Benzo[g,h,i]perylene	mg/kg		0.0081 U	**4**	**0.057**	**0.03**	**0.073 J**	**0.0028 J**	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.017**	0.0079 U	0.0076 U	**0.041**	**0.0022 J**
Benzo[k]fluoranthene	mg/kg	210	0.0081 U	**2.7**	**0.034**	**0.016**	**0.061 J**	**0.002 J**	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.013**	0.0079 U	0.0076 U	**0.029**	**0.005 J**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.081 U	0.79 U	0.081 U	0.076 U	0.033 B	0.077 U	0.076 U	0.076 U	0.077 U	0.078 U	0.078 U	0.079 U	0.076 U	0.083 U	0.079 U
Caprolactam	mg/kg	400,000	0.2 U	2 U	0.2 U	0.19 U	0.22 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.19 U	0.21 U	0.2 U
Carbazole	mg/kg		0.081 U	**0.38 J**	0.081 U	0.076 U	0.088 U	0.077 U	0.076 U	0.076 U	0.077 U	0.078 U	0.078 U	0.079 U	0.076 U	0.083 U	0.079 U
Chrysene	mg/kg	2,100	0.0081 U	**5.5**	**0.071**	**0.028**	**0.12 J**	**0.0045 J**	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.031**	**0.0017 J**	0.0076 U	**0.065 J**	**0.014**
Dibenz[a,h]anthracene	mg/kg	2.1	0.0081 U	**1.7**	**0.018**	**0.0069 J**	**0.021 J**	0.0077 U	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.0061 J**	0.0079 U	0.0076 U	**0.013**	0.0078 U
Di-n-butylphthalate	mg/kg	82,000	0.081 U	0.79 U	0.081 U	0.076 U	0.088 U	0.077 U	0.076 U	0.076 U	0.077 U	0.078 U	0.078 U	0.079 U	0.076 U	0.083 U	0.079 U
Di-n-ocytlphthalate	mg/kg	8,200	0.081 U	0.79 U	0.081 U	0.076 U	0.088 U	0.077 U	0.076 U	0.076 U	0.077 U	0.078 U	0.078 U	0.079 U	0.076 U	0.083 U	0.079 U
Fluoranthene	mg/kg	30,000	**0.0036 J**	**7.9**	**0.093**	**0.023**	**0.11**	**0.0091**	0.0076 U	**0.00069 J**	0.0077 U	0.0078 U	**0.052**	**0.0031 J**	0.0076 U	**0.1 J**	**0.059**
Fluorene	mg/kg	30,000	**0.002 J**	**0.26**	**0.0019 J**	0.0078 U	0.009 U	0.0077 U	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.0012 J**	0.0079 U	0.0076 U	**0.004 J**	0.0078 U
Hexachloroethane	mg/kg	8	0.081 U	0.79 U	0.081 U	0.076 U	0.088 U	0.077 U	0.076 U	0.076 U	0.077 U	0.078 U	0.078 U	0.079 U	0.076 U	0.083 U	0.079 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	0.0081 U	**4.4**	**0.053**	**0.026**	**0.068 J**	**0.0026 J**	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.017**	0.0079 U	0.0076 U	**0.04**	**0.0022 J**
Naphthalene	mg/kg	8.6	**0.0017 J**	**2.3**	**0.009**	0.0078 U	**0.02**	0.0077 U	0.0076 U	**0.002 J**	0.0077 U	0.0078 U	**0.0069 J**	0.0079 U	0.0076 U	**0.025 J**	0.0078 U
N-Nitroso-di-n-propylamine	mg/kg	0.33	0.081 U	0.79 U	0.081 U	0.076 U	0.088 U	0.077 U	0.076 U	0.076 U	0.077 U	0.078 U	0.078 U	0.079 U	0.076 U	0.083 U	0.079 U
N-Nitrosodiphenylamine	mg/kg	470	0.081 U	0.79 U	0.081 U	0.076 U	0.088 U	0.077 U	0.076 U	0.076 U	0.077 U	0.078 U	0.078 U	0.079 U	0.076 U	0.083 U	0.079 U
Phenanthrene	mg/kg		**0.013**	**3.2**	**0.03**	**0.0026 J**	**0.06**	**0.0045 J**	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.024**	**0.0017 J**	0.0076 U	**0.068 J**	**0.022**
Phenol	mg/kg	250,000	0.081 U	0.79 U	0.081 U	0.076 U	0.088 U	0.077 U	0.076 U	0.076 U	0.077 U	0.078 U	0.078 U	0.079 U	0.076 U	0.083 U	0.079 U
Pyrene	mg/kg	23,000	**0.0018 J**	**6.8**	**0.087**	**0.021**	**0.087**	**0.0085**	0.0076 U	0.0078 U	0.0077 U	0.0078 U	**0.046**	**0.0027 J**	0.0076 U	**0.091 J**	**0.036**
PCBs																	
Aroclor 1248	mg/kg	0.94	N/A	0.02 U	N/A	N/A	0.022 U	N/A	N/A	0.02 U	N/A	N/A	0.019 U	N/A	N/A	0.021 U	N/A
Aroclor 1254	mg/kg	0.97	N/A	0.02 U	N/A	N/A	0.022 U	N/A	N/A	0.02 U	N/A	N/A	0.019 U	N/A	N/A	0.021 U	N/A
Aroclor 1260	mg/kg	0.99	N/A	0.02 UJ	N/A	N/A	0.022 UJ	N/A	N/A	0.02 UJ	N/A	N/A	0.019 UJ	N/A	N/A	0.021 UJ	N/A
Aroclor 1268	mg/kg		N/A	0.02 UJ	N/A	N/A	0.022 UJ	N/A	N/A	0.02 UJ	N/A	N/A	**0.024 J**	N/A	N/A	**0.017 J**	N/A
PCBs (total)	mg/kg	0.97	N/A	0.18 U	N/A	N/A	0.2 U	N/A	N/A	0.18 U	N/A	N/A	0.18 U	N/A	N/A	0.19 U	N/A
TPH/Oil & Grease																	
Diesel Range Organics	mg/kg	6,200	**6.6 J**	**113 J**	**10.6 J**	7.8 UJ	**15.3 J**	7.8 UJ	7.7 UJ	**6.8 J**	7.7 UJ	7.7 UJ	**17.1 J**	7.9 UJ	7.6 UJ	**18.9 J**	**4.9 J**
Gasoline Range Organics	mg/kg	6,200	10.2 U	**3.7 J**	10 U	10.2 U	20.8 U	10.8 U	11.1 U	12.1 U	11.9 U	9.7 U	15.5 U	10.6 U	10.8 U	16.7 U	11.6 U
Oil & Grease	mg/kg	6,200	**633**	**789**	**565**	**588**	**775**	**543**	**547**	**642**	**506**	**582**	**298**	**617**	**515**	**319**	**595**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A indicates that the parameter was not analyzed for this sample
*indicates non-validated data
^PAH compounds were analyzed via SIM

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.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 5 - Parcel B7 & Parcel B25
Summary of Organics Detected in Soil

Parameter	Units	PAL	B25-010-SB-5	B25-011-SB-1*	B25-011-SB-2*	B25-011-SB-4*	B25-012-SB-1*	B25-012-SB-2*	B25-012-SB-5*	B25-013-SB-1*	B25-013-SB-2*	B25-013-SB-6*	B25-014-SB-1*	B25-014-SB-2*	B25-014-SB-9*	B7-001-SB-1*
			10/19/2018	10/18/2018	10/18/2018	10/18/2018	10/22/2018	10/22/2018	10/22/2018	10/17/2018	10/17/2018	10/17/2018	10/22/2018	10/22/2018	10/22/2018	10/2/2018
Volatile Organic Compounds																
1,2-Dichlorobenzene	mg/kg	9,300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0066 U	0.0044 U	0.0047 U	N/A	N/A	0.0046 U	N/A
2-Butanone (MEK)	mg/kg	190,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.013 U	0.0088 U	0.0094 U	N/A	N/A	0.0093 U	N/A
Acetone	mg/kg	670,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.013 U	**0.0082 J**	0.0094 U	N/A	N/A	**0.014**	N/A
Benzene	mg/kg	5.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0066 U	0.0044 U	0.0047 U	N/A	N/A	0.0046 U	N/A
Carbon disulfide	mg/kg	3,500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0066 U	0.0044 U	0.0047 U	N/A	N/A	0.0046 U	N/A
Cyclohexane	mg/kg	27,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.013 U	0.0088 U	0.0094 U	N/A	N/A	0.0093 U	N/A
Ethylbenzene	mg/kg	25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.018**	**0.0018 J**	0.0047 U	N/A	N/A	0.0046 U	N/A
Methyl tert-butyl ether (MTBE)	mg/kg	210	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0066 U	0.0044 U	0.0047 U	N/A	N/A	0.0046 U	N/A
Toluene	mg/kg	47,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0066 U	0.0044 U	0.0047 U	N/A	N/A	0.0046 U	N/A
Xylenes	mg/kg	2,800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.13**	**0.014**	0.014 U	N/A	N/A	0.014 U	N/A
Semi-Volatile Organic Compounds^																
1,1-Biphenyl	mg/kg	200	0.081 U	0.73 U	0.076 U	0.081 U	0.079 U	0.077 U	0.077 U	0.078 U	0.077 U	0.077 U	0.071 U	0.71 U	0.71 U	0.072 U
2,4-Dinitrophenol	mg/kg	1,600	0.2 U	1.8 U	0.19 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.18 U	1.8 U	1.8 U	0.18 U
2,4-Dinitrotoluene	mg/kg	7.4	0.081 U	0.73 U	0.076 U	0.081 U	0.079 U	0.077 U	0.077 U	0.078 U	0.077 U	0.077 U	0.071 U	0.71 U	0.71 U	0.072 U
2-Methylnaphthalene	mg/kg	3,000	0.008 U	**0.046**	0.0077 U	0.0081 U	**0.0093**	0.0079 U	0.0079 U	**0.0049 J**	0.0078 U	0.0079 U	**0.029**	**0.037**	**0.06**	**0.019**
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.16 U	1.5 U	0.15 U	0.16 U	0.16 U	0.15 U	0.15 U	0.16 U	0.15 U	0.15 U	0.14 U	1.4 U	1.4 U	0.14 U
Acenaphthene	mg/kg	45,000	0.008 U	**0.059**	0.0077 U	0.0081 U	**0.0012 J**	0.0079 U	0.0079 U	0.008 U	0.0078 U	0.0079 U	**0.004 J**	**0.0059 J**	**0.019**	**0.01**
Acenaphthylene	mg/kg	45,000	0.008 U	**0.046**	0.0077 U	0.0081 U	**0.0049 J**	0.0079 U	0.0079 U	**0.0016 J**	0.0078 U	0.0079 U	**0.0053 J**	**0.015**	**0.021**	**0.0063 J**
Acetophenone	mg/kg	120,000	0.081 U	0.73 U	0.076 U	0.081 U	0.079 U	0.077 U	0.077 U	0.078 U	0.077 U	0.077 U	0.071 U	0.71 U	0.71 U	0.072 U
Anthracene	mg/kg	230,000	0.008 U	**0.25**	0.0077 U	0.0081 U	**0.0054 J**	0.0079 U	0.0079 U	**0.0012 J**	0.0078 U	0.0079 U	**0.0077**	**0.02**	**0.037**	**0.014**
Benz[a]anthracene	mg/kg	21	0.008 U	**1.4**	**0.0037 J**	**0.0019 J**	**0.034**	**0.0012 J**	0.0079 U	**0.0069 J**	**0.0018 J**	0.0079 U	**0.048**	**0.053**	**0.14**	**0.075**
Benzaldehyde	mg/kg	120,000	0.081 U	0.73 U	0.076 U	0.081 U	0.079 U	0.077 U	0.077 U	0.078 U	0.077 U	0.077 U	**0.027 J**	0.71 U	0.71 U	0.072 U
Benzo[a]pyrene	mg/kg	2.1	0.008 U	**1.8**	**0.0027 J**	**0.0014 J**	**0.034**	0.0079 U	0.0079 U	**0.007 J**	**0.0011 J**	0.0079 U	**0.059**	**0.067**	**0.16**	**0.098**
Benzo[b]fluoranthene	mg/kg	21	0.008 U	**3.3**	**0.0054 J**	**0.0019 J**	**0.069**	**0.00098 J**	0.0079 U	**0.014**	**0.002 J**	0.0079 U	**0.081**	**0.13**	**0.24**	**0.21**
Benzo[g,h,i]perylene	mg/kg		0.008 U	**0.6**	**0.0023 J**	**0.0015 J**	**0.025**	0.0079 U	0.0079 U	**0.0052 J**	0.0078 U	0.0079 U	**0.049**	**0.043**	**0.086**	**0.054**
Benzo[k]fluoranthene	mg/kg	210	0.008 U	**0.9**	**0.0047 J**	0.0081 U	**0.06**	0.0079 U	0.0079 U	**0.013**	**0.0019 J**	0.0079 U	**0.03**	**0.11**	**0.081**	**0.19**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.081 U	0.73 U	0.076 U	0.081 U	0.079 U	0.077 U	0.077 U	0.078 U	0.077 U	0.077 U	**0.028 J**	0.71 U	0.71 U	**0.03 J**
Caprolactam	mg/kg	400,000	0.2 U	1.8 U	0.19 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.18 U	1.8 U	1.8 U	0.18 U
Carbazole	mg/kg		0.081 U	0.73 U	0.076 U	0.081 U	0.079 U	0.077 U	0.077 U	0.078 U	0.077 U	0.077 U	0.071 U	0.71 U	0.71 U	0.072 U
Chrysene	mg/kg	2,100	0.008 U	**2**	**0.0029 J**	**0.00097 J**	**0.039**	**0.00051 J**	0.0079 U	**0.0077 J**	**0.0009 J**	0.0079 U	**0.058**	**0.066**	**0.15**	**0.098**
Dibenz[a,h]anthracene	mg/kg	2.1	0.008 U	**0.28**	0.0077 U	0.0081 U	**0.0082**	0.0079 U	0.0079 U	0.008 U	0.0078 U	0.0079 U	**0.016**	**0.014**	**0.033**	**0.021**
Di-n-butylphthalate	mg/kg	82,000	0.081 U	0.73 U	0.076 U	0.081 U	0.079 U	0.077 U	0.077 U	0.078 U	0.077 U	0.077 U	0.071 U	0.71 U	0.71 U	0.072 U
Di-n-ocytlphthalate	mg/kg	8,200	0.081 U	0.73 U	0.076 U	0.081 U	0.079 U	0.077 U	0.077 U	0.078 U	0.077 U	0.077 U	0.071 U	0.71 U	0.71 U	**0.057 J**
Fluoranthene	mg/kg	30,000	**0.00069 J**	**2.8**	**0.0046 J**	**0.0015 J**	**0.064**	**0.00088 J**	0.0079 U	**0.012**	**0.0017 J**	0.0079 U	**0.077**	**0.074**	**0.21**	**0.079**
Fluorene	mg/kg	30,000	0.008 U	**0.06**	0.0077 U	0.0081 U	**0.0012 J**	0.0079 U	0.0079 U	0.008 U	0.0078 U	0.0079 U	**0.0025 J**	**0.0048 J**	**0.012**	**0.0036 J**
Hexachloroethane	mg/kg	8	0.081 U	0.73 U	0.076 U	0.081 U	0.079 U	0.077 U	0.077 U	0.078 U	0.077 U	0.077 U	0.071 U	0.71 U	0.71 U	0.072 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	0.008 U	**0.65**	**0.0021 J**	0.0081 U	**0.024**	0.0079 U	0.0079 U	**0.0045 J**	0.0078 U	0.0079 U	**0.046**	**0.037**	**0.092**	**0.062**
Naphthalene	mg/kg	8.6	0.008 U	**0.074**	0.0077 U	0.0081 U	**0.0068 J**	0.0079 U	0.0079 U	**0.0098**	0.0078 U	0.0079 U	**0.02**	**0.021**	**0.043**	**0.022**
N-Nitroso-di-n-propylamine	mg/kg	0.33	0.081 U	0.73 U	0.076 U	0.081 U	0.079 U	0.077 U	0.077 U	0.078 U	0.077 U	0.077 U	0.071 U	0.71 U	0.71 U	0.072 U
N-Nitrosodiphenylamine	mg/kg	470	0.081 U	0.73 U	0.076 U	0.081 U	0.079 U	0.077 U	0.077 U	0.078 U	0.077 U	0.077 U	0.071 U	0.71 U	0.71 U	0.072 U
Phenanthrene	mg/kg		**0.00098 J**	**1.2**	**0.0022 J**	**0.0011 J**	**0.031**	**0.00084 J**	0.0079 U	**0.0063 J**	**0.00086 J**	0.0079 U	**0.044**	**0.072**	**0.14**	**0.065**
Phenol	mg/kg	250,000	0.081 U	0.73 U	0.076 U	0.081 U	0.079 U	0.077 U	0.077 U	0.078 U	0.077 U	0.077 U	0.071 U	0.71 U	0.71 U	0.072 U
Pyrene	mg/kg	23,000	0.008 U	**2.3**	**0.0043 J**	**0.0019 J**	**0.056**	0.0079 U	0.0079 U	**0.01**	**0.0017 J**	0.0079 U	**0.074**	**0.066**	**0.2**	**0.069**
PCBs																
Aroclor 1248	mg/kg	0.94	N/A	0.18 U	N/A	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A	0.018 U	N/A	N/A	**0.045**
Aroclor 1254	mg/kg	0.97	N/A	0.18 U	N/A	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A	0.018 U	N/A	N/A	0.019 U
Aroclor 1260	mg/kg	0.99	N/A	0.18 U	N/A	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A	**0.036**	N/A	N/A	**0.064**
Aroclor 1268	mg/kg		N/A	0.18 U	N/A	N/A	0.02 U	N/A	N/A	**0.014 J**	N/A	N/A	**0.017 J**	N/A	N/A	0.019 U
PCBs (total)	mg/kg	0.97	N/A	1.6 U	N/A	N/A	0.18 U	N/A	N/A	0.18 U	N/A	N/A	**0.053 J**	N/A	N/A	**0.11 J**
TPH/Oil & Grease																
Diesel Range Organics	mg/kg	6,200	8.1 UJ	**244**	**10.9**	**6.6 J**	**12.6**	**6 J**	**6.6 J**	**17.4**	**5.4 J**	7.8 U	**22.6**	**146**	**105**	**42.9**
Gasoline Range Organics	mg/kg	6,200	10.5 U	10.9 U	11.2 U	10.7 U	13.5 U	9.6 U	11 U	**4 J**	11.5 U	9.8 U	10.8 U	9.4 U	11.3 U	13 U
Oil & Grease	mg/kg	6,200	**563**	**18,600**	**509**	**479**	**154**	**450**	**501**	**770**	**527**	**557**	**461**	**283**	**2,290**	**184**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A indicates that the parameter was not analyzed for this sample
*indicates non-validated data
^PAH compounds were analyzed via SIM

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.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 5 - Parcel B7 & Parcel B25
Summary of Organics Detected in Soil

Parameter	Units	PAL	B7-001-SB-2* 10/2/2018	B7-001-SB-5* 10/2/2018	B7-002-SB-1* 10/2/2018	B7-002-SB-2* 10/2/2018	B7-002-SB-9* 10/2/2018	B7-003-SB-1* 10/2/2018	B7-003-SB-2* 10/2/2018	B7-003-SB-6* 10/2/2018	B7-004-SB-1* 10/31/2018	B7-004-SB-5* 10/31/2018	B7-005-SB-1 10/30/2018	B7-005-SB-5 10/30/2018	B7-006-SB-1* 10/31/2018	B7-006-SB-5* 10/31/2018	B7-007-SB-1 3/7/2019
Volatile Organic Compounds																	
1,2-Dichlorobenzene	mg/kg	9,300	0.0048 U	N/A	N/A	N/A	0.005 U	0.0061 U	0.005 U	0.008 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Butanone (MEK)	mg/kg	190,000	0.0097 U	N/A	N/A	N/A	0.01 U	0.012 U	0.01 U	0.016 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acetone	mg/kg	670,000	**0.21**	N/A	N/A	N/A	0.01 U	0.012 U	0.01 U	**0.022**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	mg/kg	5.1	0.0048 U	N/A	N/A	N/A	0.005 U	0.0061 U	0.005 U	0.008 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbon disulfide	mg/kg	3,500	0.0048 U	N/A	N/A	N/A	0.005 U	0.0061 U	0.005 U	0.008 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyclohexane	mg/kg	27,000	0.0097 U	N/A	N/A	N/A	0.01 U	0.012 U	0.01 U	0.016 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	mg/kg	25	0.0048 U	N/A	N/A	N/A	0.005 U	0.0061 U	0.005 U	0.008 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methyl tert-butyl ether (MTBE)	mg/kg	210	0.0048 U	N/A	N/A	N/A	0.005 U	0.0061 U	0.005 U	0.008 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	mg/kg	47,000	0.0048 U	N/A	N/A	N/A	0.005 U	0.0061 U	0.005 U	0.008 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes	mg/kg	2,800	0.014 U	N/A	N/A	N/A	0.015 U	0.018 U	0.015 U	0.024 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-Volatile Organic Compounds^																	
1,1-Biphenyl	mg/kg	200	0.075 U	0.075 U	0.071 U	0.073 U	0.083 U	0.073 U	0.74 U	0.08 U	0.077 U	0.075 U	0.068 U	0.77 U	0.079 U	0.076 U	0.68 U
2,4-Dinitrophenol	mg/kg	1,600	0.19 U	0.19 U	0.18 U	0.18 U	0.21 U	0.18 U	1.9 U	0.2 U	0.19 U	0.19 U	0.17 UJ	1.9 UJ	0.2 U	0.19 U	1.7 U
2,4-Dinitrotoluene	mg/kg	7.4	0.075 U	0.075 U	0.071 U	0.073 U	0.083 U	0.073 U	0.74 U	0.08 U	0.077 U	0.075 U	0.068 U	0.77 U	0.079 U	0.076 U	0.68 U
2-Methylnaphthalene	mg/kg	3,000	**0.028**	0.0076 U	**0.046**	0.0073 U	0.0084 U	**0.0092**	**0.06**	**0.028**	**0.032**	**0.0049 J**	0.0069 U	0.0078 U	**0.026**	0.0077 U	**0.024 J**
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.15 U	0.15 U	0.14 U	0.15 U	0.17 U	0.15 U	1.5 U	0.16 U	0.15 U	0.15 U	0.14 U	1.5 U	0.16 U	0.15 U	1.4 U
Acenaphthene	mg/kg	45,000	**0.041**	0.0076 U	**0.031**	0.0073 U	0.0084 U	**0.0041 J**	**0.048**	**0.039**	**0.0039 J**	**0.0018 J**	0.0069 U	**0.0017 J**	**0.0038 J**	0.0077 U	0.07 U
Acenaphthylene	mg/kg	45,000	**0.027**	0.0076 U	**0.0098**	0.0073 U	0.0084 U	**0.014**	**0.49**	**0.053**	**0.053**	**0.022**	0.0069 U	**0.008**	**0.018**	0.0077 U	0.07 U
Acetophenone	mg/kg	120,000	0.075 U	0.075 U	0.071 U	0.073 U	0.083 U	0.073 U	0.74 U	0.08 U	0.077 U	0.075 U	0.068 U	0.77 U	0.079 U	0.076 U	0.68 U
Anthracene	mg/kg	230,000	**0.13**	0.0076 U	**0.039**	0.0073 U	0.0084 U	**0.013**	**0.66**	**0.13**	**0.023**	**0.024**	0.0069 U	**0.0058 J**	**0.018**	0.0077 U	0.07 U
Benz[a]anthracene	mg/kg	21	**0.28**	0.0076 U	**0.22**	0.0073 U	0.0084 U	**0.06**	**2**	**0.24**	**0.13**	**0.2**	**0.0031 J**	**0.04**	**0.075**	**0.0019 J**	0.07 U
Benzaldehyde	mg/kg	120,000	**0.027 J**	0.075 U	0.071 U	0.073 U	0.083 U	0.073 U	0.74 U	0.08 U	**0.021 J**	0.075 U	0.068 U	0.77 U	0.079 U	0.076 U	0.68 R
Benzo[a]pyrene	mg/kg	2.1	**0.24**	0.0076 U	**0.34**	0.0073 U	0.0084 U	**0.077**	**1.4**	**0.2**	**0.16**	**0.23**	**0.0027 J**	**0.044**	**0.082**	**0.0011 J**	0.0061 B
Benzo[b]fluoranthene	mg/kg	21	**0.46**	0.0076 U	**0.49**	0.0073 U	0.0084 U	**0.13**	**2.2**	**0.28**	**0.26**	**0.35**	**0.0036 J**	**0.089**	**0.12**	**0.0022 J**	0.07 U
Benzo[g,h,i]perylene	mg/kg		**0.099**	0.0076 U	**0.17**	0.0073 U	0.0084 U	**0.047**	**0.47**	**0.054**	**0.068**	**0.083**	**0.002 J**	**0.018**	**0.048**	0.0077 U	0.07 U
Benzo[k]fluoranthene	mg/kg	210	**0.14**	0.0076 U	**0.16**	0.0073 U	0.0084 U	**0.05**	**0.89**	**0.12**	**0.099**	**0.13**	**0.0018 J**	**0.076**	**0.052**	**0.0021 J**	0.07 U
bis(2-Ethylhexyl)phthalate	mg/kg	160	**0.093**	0.075 U	0.071 U	0.073 U	0.083 U	0.073 U	0.74 U	0.08 U	**0.055 J**	**0.018 J**	0.015 B	0.77 U	**0.021 J**	**0.016 J**	0.68 U
Caprolactam	mg/kg	400,000	0.19 U	0.19 U	0.18 U	0.18 U	0.21 U	0.18 U	1.9 U	0.2 U	0.19 U	0.19 U	0.17 U	1.9 U	0.2 U	0.19 U	1.7 U
Carbazole	mg/kg		0.075 U	0.075 U	**0.02 J**	0.073 U	0.083 U	0.073 U	0.74 U	0.08 U	0.077 U	0.075 U	0.068 U	0.77 U	0.079 U	0.076 U	0.68 U
Chrysene	mg/kg	2,100	**0.31**	0.0076 U	**0.25**	0.0073 U	0.0084 U	**0.08**	**1.4**	**0.22**	**0.14**	**0.19**	**0.0027 J**	**0.04**	**0.082**	**0.0012 J**	0.07 U
Dibenz[a,h]anthracene	mg/kg	2.1	**0.045**	0.0076 U	**0.068**	0.0073 U	0.0084 U	**0.019**	**0.22**	**0.026**	**0.032**	**0.039**	0.0069 U	**0.0066 J**	**0.02**	0.0077 U	0.07 U
Di-n-butylphthalate	mg/kg	82,000	**0.031 J**	0.075 U	0.071 U	0.073 U	0.083 U	0.073 U	0.74 U	0.08 U	0.077 U	0.075 U	0.068 U	0.77 U	0.079 U	0.076 U	0.68 U
Di-n-ocytlphthalate	mg/kg	8,200	**0.059 J**	**0.056 J**	**0.057 J**	**0.054 J**	**0.062 J**	**0.055 J**	0.74 U	0.08 U	**0.053 J**	0.075 U	0.068 U	0.77 U	**0.029 J**	0.076 U	0.68 U
Fluoranthene	mg/kg	30,000	**0.33**	0.0076 U	**0.22**	0.0073 U	0.0084 U	**0.06**	**4.7**	**0.81**	**0.19**	**0.18**	**0.0048 J**	**0.06**	**0.12**	**0.0021 J**	0.07 U
Fluorene	mg/kg	30,000	**0.024**	0.0076 U	**0.01**	0.0073 U	0.0084 U	**0.002 J**	**0.25**	**0.035**	**0.0053 J**	**0.0031 J**	0.0069 U	**0.0011 J**	**0.0044 J**	0.0077 U	0.07 U
Hexachloroethane	mg/kg	8	0.075 U	0.075 U	0.071 U	0.073 U	0.083 U	0.073 U	0.74 U	0.08 U	0.077 U	0.075 U	0.068 U	0.77 U	0.079 U	0.076 U	0.68 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	**0.12**	0.0076 U	**0.2**	0.0073 U	0.0084 U	**0.053**	**0.61**	**0.07**	**0.081**	**0.094**	**0.0017 J**	**0.019**	**0.054**	0.0077 U	0.07 U
Naphthalene	mg/kg	8.6	**0.017**	0.0076 U	**0.061**	0.0073 U	0.0084 U	**0.024**	**0.22**	**0.062**	**0.031**	**0.0044 J**	**0.0015 J**	**0.0043 J**	**0.021**	0.0077 U	0.07 U
N-Nitroso-di-n-propylamine	mg/kg	0.33	0.075 U	0.075 U	0.071 U	0.073 U	0.083 U	0.073 U	0.74 U	0.08 U	0.077 U	0.075 U	0.068 U	0.77 U	0.079 U	0.076 U	0.68 U
N-Nitrosodiphenylamine	mg/kg	470	0.075 U	0.075 U	0.071 U	0.073 U	0.083 U	0.073 U	0.74 U	0.08 U	0.077 U	0.075 U	0.068 U	0.77 U	0.079 U	0.076 U	0.68 U
Phenanthrene	mg/kg		**0.26**	**0.0012 J**	**0.15**	0.0073 U	0.0084 U	**0.034**	**2.9**	**0.18**	**0.088**	**0.042**	**0.0031 J**	**0.019**	**0.066**	**0.0012 J**	**0.007 J**
Phenol	mg/kg	250,000	0.075 U	0.075 U	0.071 U	0.073 U	0.083 U	0.073 U	0.74 U	0.08 U	0.077 U	0.075 U	0.068 U	0.77 U	0.079 U	0.076 U	0.68 U
Pyrene	mg/kg	23,000	**0.25**	0.0076 U	**0.2**	0.0073 U	0.0084 U	**0.051**	**3.6**	**0.55**	**0.17**	**0.18**	**0.0041 J**	**0.051**	**0.11**	**0.0017 J**	**0.0081 J**
PCBs																	
Aroclor 1248	mg/kg	0.94	N/A	N/A	**0.027**	N/A	N/A	0.018 U	N/A	N/A	0.02 U	N/A	0.017 U	N/A	0.02 U	N/A	0.34 U
Aroclor 1254	mg/kg	0.97	N/A	N/A	0.018 U	N/A	N/A	**0.13**	N/A	N/A	0.02 U	N/A	0.017 U	N/A	0.02 U	N/A	0.34 U
Aroclor 1260	mg/kg	0.99	N/A	N/A	**0.058**	N/A	N/A	0.018 U	N/A	N/A	**0.021**	N/A	0.017 U	N/A	0.02 U	N/A	0.34 U
Aroclor 1268	mg/kg		N/A	N/A	**0.044**	N/A	N/A	**0.032**	N/A	N/A	**0.0082 J**	N/A	0.017 U	N/A	0.02 U	N/A	0.34 U
PCBs (total)	mg/kg	0.97	N/A	N/A	**0.13 J**	N/A	N/A	**0.16 J**	N/A	N/A	0.18 U	N/A	0.16 U	N/A	0.18 U	N/A	3.1 U
TPH/Oil & Grease																	
Diesel Range Organics	mg/kg	6,200	**42.8**	7.6 U	**76.8**	7.4 U	8.5 U	**16.4**	**55.6**	**84.6**	**38.6**	**13.5**	**6.5 J**	**13.7 J**	**39.3**	**14.3**	**37.7 J**
Gasoline Range Organics	mg/kg	6,200	12.2 U	12.5 U	10.8 U	10.1 U	10.7 U	11.9 U	14 U	10.1 U	12.3 U	11 U	10.3 U	10.8 U	10.9 U	9.8 U	11.8 U
Oil & Grease	mg/kg	6,200	**280**	**369**	**288**	**424**	**467**	**248**	**526**	**906**	**431**	**298**	**194 J+**	**486 J+**	**597**	**446**	**6,780**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A indicates that the parameter was not analyzed for this sample
*indicates non-validated data
^PAH compounds were analyzed via SIM

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.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 5 - Parcel B7 & Parcel B25
Summary of Organics Detected in Soil

Parameter	Units	PAL	B7-007-SB-5	B7-007-SB-10	B7-008-SB-1*	B7-008-SB-4*	B7-009-SB-1*	B7-009-SB-7*	B7-010-SB-1*	B7-010-SB-5*	B7-011-SB-1*	B7-011-SB-6*	B7-012-SB-1*	B7-012-SB-5*	B7-013-SB-1*	B7-013-SB-4*	B7-014-SB-1*
			3/7/2019	3/7/2019	3/8/2019	3/8/2019	10/5/2018	10/5/2018	10/8/2018	10/8/2018	10/5/2018	10/5/2018	9/18/2019	9/18/2019	9/18/2019	9/18/2019	10/1/2018
Volatile Organic Compounds																	
1,2-Dichlorobenzene	mg/kg	9,300	N/A	N/A	N/A	N/A	0.0058 U	0.0046 U	N/A	N/A	0.0046 U	N/A	N/A	N/A	N/A	N/A	N/A
2-Butanone (MEK)	mg/kg	190,000	N/A	N/A	N/A	N/A	0.012 U	0.0093 U	N/A	N/A	0.0092 U	N/A	N/A	N/A	N/A	N/A	N/A
Acetone	mg/kg	670,000	N/A	N/A	N/A	N/A	**0.062**	0.0093 U	N/A	N/A	**0.015**	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	mg/kg	5.1	N/A	N/A	N/A	N/A	0.0058 U	0.0046 U	N/A	N/A	**0.0014 J**	N/A	N/A	N/A	N/A	N/A	N/A
Carbon disulfide	mg/kg	3,500	N/A	N/A	N/A	N/A	0.0058 U	0.0046 U	N/A	N/A	0.0046 U	N/A	N/A	N/A	N/A	N/A	N/A
Cyclohexane	mg/kg	27,000	N/A	N/A	N/A	N/A	0.012 U	0.0093 U	N/A	N/A	**0.002 J**	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	mg/kg	25	N/A	N/A	N/A	N/A	0.0058 U	0.0046 U	N/A	N/A	0.0046 U	N/A	N/A	N/A	N/A	N/A	N/A
Methyl tert-butyl ether (MTBE)	mg/kg	210	N/A	N/A	N/A	N/A	0.0058 U	0.0046 U	N/A	N/A	0.0046 U	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	mg/kg	47,000	N/A	N/A	N/A	N/A	0.0058 U	0.0046 U	N/A	N/A	**0.0014 J**	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes	mg/kg	2,800	N/A	N/A	N/A	N/A	0.017 U	0.014 U	N/A	N/A	0.014 U	N/A	N/A	N/A	N/A	N/A	N/A
Semi-Volatile Organic Compounds^																	
1,1-Biphenyl	mg/kg	200	0.76 U	N/A	0.76 U	0.8 U	0.071 U	0.079 U	0.072 U	0.078 U	0.071 U	0.078 U	0.072 U	0.072 U	0.07 U	0.07 U	0.074 U
2,4-Dinitrophenol	mg/kg	1,600	1.9 U	N/A	1.9 U	2 U	0.18 U	0.2 U	0.18 U	0.2 U	0.18 U	0.2 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U
2,4-Dinitrotoluene	mg/kg	7.4	0.76 U	N/A	0.76 U	0.8 U	0.071 U	0.079 U	0.072 U	0.078 U	0.071 U	0.078 U	0.072 U	0.072 U	0.07 U	0.07 U	0.074 U
2-Methylnaphthalene	mg/kg	3,000	**0.2**	N/A	**0.47**	**0.66**	**0.026**	0.008 U	**0.011**	**0.0024 J**	**0.037**	0.0077 U	**0.0021 J**	**0.005 J**	0.007 U	0.0071 U	**0.019**
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	1.5 U	N/A	1.5 U	1.6 U	0.14 U	0.16 U	0.14 U	0.16 U	0.14 U	0.16 U	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U
Acenaphthene	mg/kg	45,000	**0.24**	N/A	**0.089**	**0.12**	**0.013**	0.008 U	**0.011**	**0.0082**	**0.043**	0.0077 U	0.0072 U	**0.0012 J**	0.007 U	0.0071 U	**0.0099**
Acenaphthylene	mg/kg	45,000	**0.07 J**	N/A	0.076 U	0.079 U	**0.0067 J**	0.008 U	**0.0062 J**	**0.00098 J**	**0.0092**	0.0077 U	**0.0023 J**	**0.0019 J**	0.007 U	0.0071 U	**0.011**
Acetophenone	mg/kg	120,000	0.76 U	N/A	0.76 U	0.8 U	0.071 U	0.079 U	0.072 U	0.078 U	0.071 U	0.078 U	0.072 U	0.072 U	0.07 U	0.07 U	0.074 U
Anthracene	mg/kg	230,000	**1.7**	N/A	**0.059 J**	**0.086**	**0.019**	0.008 U	**0.012**	**0.007 J**	**0.048**	0.0077 U	0.0072 U	**0.0037 J**	0.007 U	0.0071 U	**0.017**
Benz[a]anthracene	mg/kg	21	**3.3**	N/A	**0.05 J**	**0.064 J**	**0.076**	0.008 U	**0.06**	**0.033**	**0.18**	0.0077 U	**0.0061 J**	**0.036**	**0.0018 J**	0.0071 U	**0.08**
Benzaldehyde	mg/kg	120,000	0.76 R	N/A	0.76 U	0.8 U	0.071 U	0.079 U	0.072 U	0.078 U	0.071 U	0.078 U	0.072 U	0.072 U	0.07 U	0.07 U	0.074 U
Benzo[a]pyrene	mg/kg	2.1	2.5	0.0083 UJ	**0.043 J**	**0.04 J**	**0.11**	0.008 U	**0.099**	**0.066**	**0.27**	0.0077 U	**0.0085**	**0.057**	**0.0012 J**	0.0071 U	**0.11**
Benzo[b]fluoranthene	mg/kg	21	**3.7**	N/A	**0.068 J**	**0.092**	**0.17**	0.008 U	**0.19**	**0.08**	**0.37**	0.0077 U	**0.02**	**0.11**	**0.0027 J**	0.0071 U	**0.14**
Benzo[g,h,i]perylene	mg/kg		**0.82**	N/A	**0.04 J**	**0.02 J**	**0.076**	0.008 U	**0.058**	**0.036**	**0.17**	0.0077 U	**0.0074**	**0.063**	0.007 U	0.0071 U	**0.1**
Benzo[k]fluoranthene	mg/kg	210	**1.2**	N/A	**0.021 J**	**0.085**	**0.063**	0.008 U	**0.16**	**0.039**	**0.13**	0.0077 U	**0.017**	**0.095**	**0.0023 J**	0.0071 U	**0.059**
bis(2-Ethylhexyl)phthalate	mg/kg	160	**0.15 J**	N/A	0.76 U	0.8 U	0.071 U	0.079 U	0.072 U	0.078 U	0.071 U	0.078 U	0.072 U	**0.016 J**	**0.02 J**	**0.025 J**	0.074 U
Caprolactam	mg/kg	400,000	**1.5 J**	N/A	**0.42 J**	2 U	0.18 U	0.2 U	0.18 U	0.2 U	0.18 U	0.2 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U
Carbazole	mg/kg		0.76 U	N/A	0.76 U	0.8 U	0.071 U	0.079 U	0.072 U	0.078 U	0.071 U	0.078 U	0.072 U	0.072 U	0.07 U	0.07 U	0.074 U
Chrysene	mg/kg	2,100	**2.7**	N/A	**0.07 J**	**0.07 J**	**0.092**	0.008 U	**0.069**	**0.031**	**0.19**	0.0077 U	**0.0092**	**0.056**	**0.0013 J**	0.0071 U	**0.097**
Dibenz[a,h]anthracene	mg/kg	2.1	**0.32**	N/A	0.076 U	0.079 U	**0.025**	0.008 U	**0.021**	**0.012**	**0.06**	0.0077 U	**0.0024 J**	**0.014**	0.007 U	0.0071 U	**0.029**
Di-n-butylphthalate	mg/kg	82,000	0.76 U	N/A	0.76 U	0.8 U	0.071 U	0.079 U	0.072 U	0.078 U	0.071 U	0.078 U	0.072 U	0.072 U	0.07 U	0.07 U	0.074 U
Di-n-ocytlphthalate	mg/kg	8,200	0.76 U	N/A	0.76 U	0.8 U	0.071 U	0.079 U	**0.025 J**	0.078 U	0.071 U	0.078 U	0.072 U	0.072 U	0.07 U	0.07 U	0.056 B
Fluoranthene	mg/kg	30,000	**5.7**	N/A	**0.12**	**0.16**	**0.11**	0.008 U	**0.064**	**0.034**	**0.24**	0.0077 U	**0.007 J**	**0.05**	**0.0021 J**	0.0071 U	**0.11**
Fluorene	mg/kg	30,000	**0.46**	N/A	**0.065 J**	**0.091**	**0.0076**	0.008 U	**0.0028 J**	**0.0018 J**	**0.021**	0.0077 U	0.0072 U	**0.001 J**	0.007 U	0.0071 U	**0.0057 J**
Hexachloroethane	mg/kg	8	**0.46 J**	N/A	0.76 U	0.8 U	0.071 U	0.079 U	0.072 U	0.078 U	0.071 U	0.078 U	0.072 U	0.072 U	0.07 U	0.07 U	0.074 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	**0.78**	N/A	**0.016 J**	**0.016 J**	**0.069**	0.008 U	**0.06**	**0.037**	**0.17**	0.0077 U	**0.0064 J**	**0.045**	0.007 U	0.0071 U	**0.09**
Naphthalene	mg/kg	8.6	**0.14**	N/A	**0.12**	**0.2**	**0.029**	0.008 U	**0.017**	**0.0037 J**	**0.11**	0.0077 U	**0.0015 J**	**0.0031 J**	0.007 U	0.0071 U	**0.031**
N-Nitroso-di-n-propylamine	mg/kg	0.33	0.76 U	N/A	0.76 U	0.8 U	0.071 U	0.079 U	0.072 U	0.078 U	0.071 U	0.078 U	0.072 U	0.072 U	0.07 U	0.07 U	0.074 U
N-Nitrosodiphenylamine	mg/kg	470	0.76 U	N/A	0.76 U	0.8 U	0.071 U	0.079 U	0.072 U	0.078 U	0.071 U	0.078 U	0.072 U	0.072 U	0.07 U	0.07 U	0.074 U
Phenanthrene	mg/kg		**3.9**	N/A	**0.24**	**0.37**	**0.1**	0.008 U	**0.051**	**0.024**	**0.17**	0.0077 U	**0.0047 J**	**0.024**	**0.0014 J**	**0.001 J**	**0.063**
Phenol	mg/kg	250,000	0.76 U	N/A	0.76 U	0.8 U	0.071 U	0.079 U	0.072 U	0.078 U	0.071 U	0.078 U	0.072 U	0.072 U	0.07 U	0.07 U	0.074 U
Pyrene	mg/kg	23,000	**4.9**	N/A	**0.14**	**0.19**	**0.098**	0.008 U	**0.054**	**0.028**	**0.21**	0.0077 U	**0.0064 J**	**0.049**	**0.0017 J**	0.0071 U	**0.091**
PCBs																	
Aroclor 1248	mg/kg	0.94	N/A	N/A	0.38 U	N/A	0.018 U	N/A	0.018 U	N/A	0.018 U	N/A	0.018 U	N/A	0.017 U	N/A	0.019 U
Aroclor 1254	mg/kg	0.97	N/A	N/A	0.38 U	N/A	0.018 U	N/A	0.018 U	N/A	0.018 U	N/A	0.018 U	N/A	0.017 U	N/A	**0.089**
Aroclor 1260	mg/kg	0.99	N/A	N/A	0.38 U	N/A	0.018 U	N/A	**0.024**	N/A	**0.018**	N/A	0.018 U	N/A	0.017 U	N/A	0.019 U
Aroclor 1268	mg/kg		N/A	N/A	0.38 U	N/A	0.018 U	N/A	**0.017 J**	N/A	0.018 U	N/A	0.018 U	N/A	**0.011 J**	N/A	0.019 U
PCBs (total)	mg/kg	0.97	N/A	N/A	3.4 U	N/A	0.16 U	N/A	0.16 U	N/A	0.16 U	N/A	0.16 U	N/A	0.16 U	N/A	**0.089 J**
TPH/Oil & Grease																	
Diesel Range Organics	mg/kg	6,200	**711 J**	N/A	**220**	**151**	**48.3**	8.1 U	**58.8**	**22.5**	**41.4**	7.7 U	**4.3 J**	**8**	6.9 U	**4.1 J**	**15.7**
Gasoline Range Organics	mg/kg	6,200	10.9 U	N/A	10 U	12 U	**3.9 J**	11.9 U	10.1 U	6.9 U	**13.1**	9.9 U	10.2 U	8.8 U	12.4 U	12.8 U	13.4 U
Oil & Grease	mg/kg	6,200	**1,360**	N/A	**2,920**	**1,260**	**212**	**339**	**294**	**350**	**274**	**306**	**55.1 J**	**99 J**	**99.8 J**	**69.4 J**	**916**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A indicates that the parameter was not analyzed for this sample
*indicates non-validated data
^PAH compounds were analyzed via SIM

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.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 5 - Parcel B7 & Parcel B25
Summary of Organics Detected in Soil

Parameter	Units	PAL	B7-014-SB-2* 10/1/2018	B7-014-SB-5* 10/1/2018	B7-014-SB-10* 10/1/2018	B7-015-SB-1* 10/1/2018	B7-015-SB-2* 10/1/2018	B7-015-SB-5* 10/1/2018	B7-015-SB-10* 10/1/2018	B7-016-SB-1* 9/18/2019	B7-016-SB-8* 9/18/2019	B7-017-SB-1* 9/18/2019	B7-017-SB-4* 9/18/2019	B7-017-SB-10* 9/18/2019	B7-018-SB-1* 10/5/2018	B7-018-SB-5* 10/5/2018	B7-019-SB-1* 10/5/2018
Volatile Organic Compounds																	
1,2-Dichlorobenzene	mg/kg	9,300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0052 U	0.0045 U	0.0088 U	N/A	N/A
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	0.01 U	0.0089 U	0.018 U	N/A	N/A
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	0.01 U	0.0089 U	0.018 U	N/A	N/A
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	0.0052 U	0.0045 U	0.0088 U	N/A	N/A
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	0.0052 U	0.0045 U	**0.0053 J**	N/A	N/A
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	0.01 U	0.0089 U	0.018 U	N/A	N/A
Ethylbenzene	mg/kg	25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0052 U	0.0045 U	0.0088 U	N/A	N/A
Methyl tert-butyl ether (MTBE)	mg/kg	210	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0052 U	0.0045 U	0.0088 U	N/A	N/A
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	0.0052 U	0.0045 U	0.0088 U	N/A	N/A
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	0.016 U	0.013 U	0.026 U	N/A	N/A
Semi-Volatile Organic Compounds^																	
1,1-Biphenyl	mg/kg	200	0.072 U	0.077 U	0.085 U	0.072 U	0.073 U	0.08 U	0.076 U	0.076 U	0.081 U	0.071 U	0.072 U	0.082 U	0.071 U	0.077 U	0.072 U
2,4-Dinitrophenol	mg/kg	1,600	0.18 U	0.19 U	0.21 U	0.18 U	0.18 U	0.2 U	0.19 U	**0.082 J**	0.2 U	0.18 U	0.18 U	0.2 U	0.18 U	0.19 U	0.18 U
2,4-Dinitrotoluene	mg/kg	7.4	0.072 U	0.077 U	0.085 U	0.072 U	0.073 U	0.08 U	0.076 U	0.076 U	0.081 U	0.071 U	0.072 U	0.082 U	0.071 U	0.077 U	0.072 U
2-Methylnaphthalene	mg/kg	3,000	**0.0023 J**	0.0079 U	0.0085 U	**0.008**	**0.0018 J**	0.008 U	0.0077 U	**0.0053 J**	0.0081 U	**0.004 J**	0.0072 U	0.0081 U	**0.036**	0.0078 U	**0.051**
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.14 U	0.15 U	0.17 U	0.14 U	0.15 U	0.16 U	0.15 U	0.15 U	0.16 U	0.14 U	0.14 U	0.16 U	0.14 U	0.15 U	0.14 U
Acenaphthene	mg/kg	45,000	**0.00094 J**	0.0079 U	0.0085 U	**0.0014 J**	0.0075 U	0.008 U	0.0077 U	0.0076 U	0.0081 U	**0.0045 J**	0.0072 U	0.0081 U	**0.012**	0.0078 U	**0.0089**
Acenaphthylene	mg/kg	45,000	**0.0044 J**	0.0079 U	0.0085 U	**0.019**	**0.0039 J**	0.008 U	0.0077 U	**0.0043 J**	0.0081 U	**0.0024 J**	0.0072 U	0.0081 U	**0.017**	0.0078 U	**0.018**
Acetophenone	mg/kg	120,000	0.072 U	0.077 U	0.085 U	0.072 U	0.073 U	0.08 U	0.076 U	**0.047 J**	0.081 U	0.071 U	0.072 U	0.082 U	0.071 U	0.077 U	0.072 U
Anthracene	mg/kg	230,000	**0.004 J**	0.0079 U	0.0085 U	**0.022**	**0.0097**	0.008 U	0.0077 U	**0.0021 J**	0.0081 U	**0.0047 J**	0.0072 U	0.0081 U	**0.021**	0.0078 U	**0.024**
Benz[a]anthracene	mg/kg	21	**0.019**	**0.0012 J**	0.0085 U	**0.088**	**0.034**	0.008 U	0.0077 U	**0.01**	0.0081 U	**0.029**	0.0072 U	0.0081 U	**0.15**	**0.0012 J**	**0.13**
Benzaldehyde	mg/kg	120,000	0.072 U	0.077 U	0.085 U	0.072 U	0.073 U	0.08 U	0.076 U	**0.024 J**	0.081 U	0.071 U	0.072 U	0.082 U	0.071 U	0.077 U	0.072 U
Benzo[a]pyrene	mg/kg	2.1	**0.019**	0.0079 U	0.0085 U	**0.078**	**0.021**	0.008 U	0.0077 U	**0.011**	0.0081 U	**0.045**	0.0072 U	0.0081 U	**0.19**	**0.00094 J**	**0.13**
Benzo[b]fluoranthene	mg/kg	21	**0.042**	**0.0012 J**	0.0085 U	**0.14**	**0.039**	0.008 U	0.0077 U	**0.023**	0.0081 U	**0.081**	0.0072 U	0.0081 U	**0.3**	**0.0012 J**	**0.23**
Benzo[g,h,i]perylene	mg/kg		**0.015**	0.0079 U	0.0085 U	**0.059**	**0.015**	0.008 U	0.0077 U	**0.0089**	0.0081 U	**0.04**	0.0072 U	0.0081 U	**0.1**	0.0078 U	**0.066**
Benzo[k]fluoranthene	mg/kg	210	**0.038**	0.0079 U	0.0085 U	**0.056**	**0.014**	0.008 U	0.0077 U	**0.02**	0.0081 U	**0.068**	0.0072 U	0.0081 U	**0.11**	0.0078 U	**0.069**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.072 U	0.077 U	0.085 U	0.072 U	0.073 U	0.08 U	0.076 U	**0.021 J**	**0.016 J**	**0.029 J**	**0.028 J**	**0.023 J**	0.071 U	0.077 U	0.072 U
Caprolactam	mg/kg	400,000	0.18 U	0.19 U	0.21 U	0.18 U	0.18 U	0.2 U	0.19 U	0.19 U	0.2 U	0.18 U	0.18 U	0.2 U	0.18 U	0.19 U	0.18 U
Carbazole	mg/kg		0.072 U	0.077 U	0.085 U	0.072 U	0.073 U	0.08 U	0.076 U	0.076 U	0.081 U	0.071 U	0.072 U	0.082 U	0.071 U	0.077 U	**0.017 J**
Chrysene	mg/kg	2,100	**0.021**	0.0079 U	0.0085 U	**0.094**	**0.038**	0.008 U	0.0077 U	**0.013**	0.0081 U	**0.032**	0.0072 U	0.0081 U	**0.16**	**0.00051 J**	**0.13**
Dibenz[a,h]anthracene	mg/kg	2.1	**0.0039 J**	0.0079 U	0.0085 U	**0.018**	**0.0056 J**	0.008 U	0.0077 U	**0.0032 J**	0.0081 U	**0.011**	0.0072 U	0.0081 U	**0.04**	0.0078 U	**0.026**
Di-n-butylphthalate	mg/kg	82,000	0.072 U	0.077 U	0.085 U	0.072 U	0.073 U	0.08 U	0.076 U	0.076 U	0.081 U	0.071 U	0.072 U	0.082 U	0.071 U	0.077 U	0.072 U
Di-n-ocytlphthalate	mg/kg	8,200	0.054 B	**0.058 J**	**0.063 J**	**0.055 J**	**0.056 J**	**0.06 J**	**0.057 J**	0.076 U	0.081 U	0.071 U	0.072 U	0.082 U	0.071 U	0.077 U	0.072 U
Fluoranthene	mg/kg	30,000	**0.03**	0.0079 U	0.0085 U	**0.14**	**0.049**	0.008 U	0.0077 U	**0.017**	0.0081 U	**0.042**	**0.0026 J**	0.0081 U	**0.28**	**0.00077 J**	**0.18**
Fluorene	mg/kg	30,000	**0.00069 J**	0.0079 U	0.0085 U	**0.0025 J**	**0.00084 J**	0.008 U	0.0077 U	0.0076 U	0.0081 U	**0.0014 J**	0.0072 U	0.0081 U	**0.004 J**	0.0078 U	**0.0039 J**
Hexachloroethane	mg/kg	8	0.072 U	0.077 U	0.085 U	0.072 U	0.073 U	0.08 U	0.076 U	0.076 U	0.081 U	0.071 U	0.072 U	0.082 U	0.071 U	0.077 U	0.072 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	**0.012**	0.0079 U	0.0085 U	**0.051**	**0.016**	0.008 U	0.0077 U	**0.0075 J**	0.0081 U	**0.033**	0.0072 U	0.0081 U	**0.1**	0.0078 U	**0.065**
Naphthalene	mg/kg	8.6	**0.0046 J**	0.0079 U	**0.0081 J**	**0.013**	**0.004 J**	0.008 U	0.0077 U	**0.013**	0.0081 U	**0.0037 J**	0.0072 U	0.0081 U	**0.037**	0.0078 U	**0.049**
N-Nitroso-di-n-propylamine	mg/kg	0.33	0.072 U	0.077 U	0.085 U	0.072 U	0.073 U	0.08 U	0.076 U	0.076 U	0.081 U	0.071 U	0.072 U	0.082 U	0.071 U	0.077 U	0.072 U
N-Nitrosodiphenylamine	mg/kg	470	0.072 U	0.077 U	0.085 U	0.072 U	0.073 U	0.08 U	0.076 U	0.076 U	0.081 U	0.071 U	0.072 U	0.082 U	0.071 U	0.077 U	0.072 U
Phenanthrene	mg/kg		**0.011**	0.0079 U	0.0085 U	**0.041**	**0.027**	0.008 U	0.0077 U	**0.0088**	0.0081 U	**0.02**	0.0072 U	0.0081 U	**0.11**	**0.0008 J**	**0.1**
Phenol	mg/kg	250,000	0.072 U	0.077 U	0.085 U	0.072 U	0.073 U	0.08 U	0.076 U	0.076 U	0.081 U	0.071 U	0.072 U	0.082 U	0.071 U	0.077 U	0.072 U
Pyrene	mg/kg	23,000	**0.026**	0.0079 U	0.0085 U	**0.13**	**0.043**	0.008 U	0.0077 U	**0.015**	0.0081 U	**0.035**	0.0072 U	0.0081 U	**0.23**	0.0078 U	**0.16**
PCBs																	
Aroclor 1248	mg/kg	0.94	0.018 U	0.019 U	0.022 U	0.018 U	0.018 U	0.02 U	0.019 U	0.019 U	N/A	0.018 U	N/A	N/A	0.018 U	N/A	0.018 U
Aroclor 1254	mg/kg	0.97	0.018 U	0.019 U	0.022 U	0.018 U	0.018 U	0.02 U	0.019 U	0.019 U	N/A	0.018 U	N/A	N/A	0.018 U	N/A	0.018 U
Aroclor 1260	mg/kg	0.99	0.018 U	0.019 U	0.022 U	0.018 U	0.018 U	0.02 U	0.019 U	0.019 U	N/A	0.018 U	N/A	N/A	**0.047**	N/A	0.018 U
Aroclor 1268	mg/kg		0.018 U	0.019 U	0.022 U	0.018 U	0.018 U	0.02 U	0.019 U	0.019 U	N/A	0.018 U	N/A	N/A	0.018 U	N/A	0.018 U
PCBs (total)	mg/kg	0.97	0.16 U	0.17 U	0.19 U	0.16 U	0.17 U	0.18 U	0.18 U	0.17 U	N/A	0.16 U	N/A	N/A	0.16 U	N/A	0.16 U
TPH/Oil & Grease																	
Diesel Range Organics	mg/kg	6,200	**7.5**	7.9 U	8.5 U	**6.2 J**	**7.5**	8.1 U	7.8 U	**22.3**	8 U	**9.1**	7.2 U	**6.1 J**	**14.9**	7.7 U	**39.7**
Gasoline Range Organics	mg/kg	6,200	12.6 U	10.1 U	11.8 U	16.1 U	11.4 U	9.8 U	9.5 U	10.1 U	9.2 U	11.7 U	11.4 U	9.2 U	12.2 U	10.4 U	13.1 U
Oil & Grease	mg/kg	6,200	**325**	**570**	**768**	**279**	**299**	**797**	**493**	**113 J**	**85.1 J**	**81.8 J**	**59.7 J**	**146 J**	**272**	**390**	**293**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A indicates that the parameter was not analyzed for this sample
*indicates non-validated data
^PAH compounds were analyzed via SIM

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.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 5 - Parcel B7 & Parcel B25
Summary of Organics Detected in Soil

Parameter	Units	PAL	B7-019-SB-8* 10/5/2018	B7-020-SB-1.5* 3/8/2019	B7-020-SB-5* 3/8/2019	B7-021-SB-1* 3/8/2019	B7-021-SB-4* 3/8/2019	B7-022-SB-1.5 10/30/2018	B7-022-SB-5 10/30/2018	B7-023-SB-1.5 10/30/2018	B7-023-SB-5 10/30/2018	B7-024-SB-1* 3/8/2019	B7-024-SB-4* 3/8/2019	B7-025-SB-1* 3/8/2019	B7-025-SB-4* 3/8/2019	B7-026-SD 10/30/2018	B7-027-SD 10/30/2018
Volatile Organic Compounds																	
1,2-Dichlorobenzene	mg/kg	9,300	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	0.0071 U	0.0091 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	0.01 U	N/A	N/A	0.014 U	0.018 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	**0.0045 J**	N/A	N/A	**0.036**	**0.045**
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	0.0051 U	N/A	N/A	0.0071 U	0.0091 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	0.0051 U	N/A	N/A	0.0071 UJ	0.0091 UJ
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	0.01 U	N/A	N/A	0.014 U	0.018 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	**0.0018 J**	N/A	N/A	0.0071 U	0.0091 U
Methyl tert-butyl ether (MTBE)	mg/kg	210	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0051 U	N/A	N/A	0.0071 U	0.0091 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	**0.0017 J**	N/A	N/A	0.0071 U	0.0091 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	**0.014 J**	N/A	N/A	0.021 U	0.027 U
Semi-Volatile Organic Compounds^																	
1,1-Biphenyl	mg/kg	200	0.08 U	0.77 U	0.78 U	0.7 U	0.78 U	0.74 U	0.078 U	0.71 U	0.76 U	0.76 U	0.78 U	0.68 U	0.89 U	0.089 U	0.11 U
2,4-Dinitrophenol	mg/kg	1,600	0.2 U	1.9 U	2 U	1.8 U	2 U	1.9 UJ	0.19 UJ	1.8 UJ	1.9 UJ	1.9 U	1.9 U	1.7 U	2.2 U	0.22 UJ	0.27 UJ
2,4-Dinitrotoluene	mg/kg	7.4	0.08 U	0.77 U	0.78 U	0.7 U	0.78 U	0.74 U	0.078 U	0.71 U	0.76 U	0.76 U	0.78 U	0.68 U	0.89 U	0.089 U	0.11 U
2-Methylnaphthalene	mg/kg	3,000	0.008 U	**0.063 J**	**0.056 J**	0.07 U	**0.31**	**0.014**	0.0077 U	**0.019**	**0.11**	**0.33**	**0.37**	0.068 U	**0.025 J**	**0.0073 J**	**0.011**
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.16 U	1.5 U	1.6 U	1.4 U	1.6 U	1.5 U	0.16 U	1.4 U	1.5 U	1.5 U	1.6 U	1.4 U	1.8 U	0.18 U	**0.046 J**
Acenaphthene	mg/kg	45,000	0.008 U	**0.044 J**	**0.017 J**	0.07 U	**0.13**	**0.0055 J**	**0.0023 J**	**0.015**	**0.068**	**0.14**	**0.12**	**0.0068 J**	**0.016 J**	**0.0014 J**	**0.003 J**
Acenaphthylene	mg/kg	45,000	0.008 U	**0.02 J**	**0.023 J**	0.07 U	**0.047 J**	**0.0027 J**	**0.0017 J**	**0.07**	**5.8**	**0.052 J**	0.079 U	0.068 U	0.087 U	**0.037**	**0.015**
Acetophenone	mg/kg	120,000	0.08 U	0.77 U	0.78 U	0.7 U	0.78 U	0.74 U	0.078 U	0.71 U	0.76 U	0.76 U	0.78 U	0.68 U	0.89 U	0.089 U	0.11 U
Anthracene	mg/kg	230,000	0.008 U	**0.076**	**0.065 J**	0.07 U	**0.25**	**0.0095**	**0.0035 J**	**0.05**	**1.4**	**0.2**	**0.15**	**0.014 J**	**0.022 J**	**0.011**	**0.012**
Benz[a]anthracene	mg/kg	21	0.008 U	**0.14**	**0.14**	0.07 U	**0.55**	**0.02**	**0.016**	**0.23**	**13.5**	**0.25**	**0.15**	**0.039 J**	**0.031 J**	**0.13**	**0.069**
Benzaldehyde	mg/kg	120,000	0.08 U	0.77 U	0.78 U	0.7 U	0.78 U	0.74 U	0.078 U	0.71 U	0.76 U	0.76 U	0.78 U	0.68 U	0.89 U	0.089 U	**0.037 J**
Benzo[a]pyrene	mg/kg	2.1	0.008 U	**0.12**	**0.12**	0.07 U	**0.48**	**0.022**	**0.016**	**0.25**	**28.8 J**	**0.22**	**0.12**	0.03 B	**0.017 J**	**0.14**	**0.078**
Benzo[b]fluoranthene	mg/kg	21	0.008 U	**0.18**	**0.23**	0.07 U	**0.68**	**0.032**	**0.029**	**0.38**	**46.7 J**	**0.38**	**0.22**	**0.059 J**	**0.029 J**	**0.22**	**0.098**
Benzo[g,h,i]perylene	mg/kg		0.008 U	**0.044 J**	**0.05 J**	0.07 U	**0.18**	**0.01**	**0.012**	**0.099**	**7 J**	**0.09**	**0.051 J**	**0.014 J**	0.087 U	**0.073**	**0.043**
Benzo[k]fluoranthene	mg/kg	210	0.008 U	**0.08**	**0.071 J**	0.07 U	**0.31**	**0.012**	**0.024**	**0.12**	**9 J**	**0.13**	**0.065 J**	**0.055 J**	0.087 U	**0.084**	**0.042**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.08 U	0.77 U	0.78 U	0.7 U	0.78 U	0.74 U	0.078 U	0.71 U	0.76 U	0.76 U	0.78 U	0.68 U	0.89 U	0.089 U	0.022 B
Caprolactam	mg/kg	400,000	0.2 U	1.9 U	2 U	1.8 U	**0.22 J**	1.9 U	0.19 U	1.8 U	1.9 U	1.9 U	1.9 U	1.7 U	2.2 U	0.22 U	0.27 U
Carbazole	mg/kg		0.08 U	0.77 U	0.78 U	0.7 U	0.78 U	0.74 U	0.078 U	0.71 U	**0.27 J**	0.76 U	0.78 U	0.68 U	0.89 U	0.089 U	0.11 U
Chrysene	mg/kg	2,100	0.008 U	**0.14**	**0.18**	0.0049 B	**0.5**	**0.023**	**0.016**	**0.21**	**11.4**	**0.25**	**0.16**	0.026 B	**0.018 J**	**0.12**	**0.068**
Dibenz[a,h]anthracene	mg/kg	2.1	0.008 U	0.075 U	**0.018 J**	0.07 U	**0.061 J**	**0.0033 J**	**0.004 J**	**0.04**	**3.5 J**	**0.03 J**	0.079 U	0.068 U	0.087 U	**0.033**	**0.015**
Di-n-butylphthalate	mg/kg	82,000	0.08 U	0.77 U	0.78 U	0.7 U	0.78 U	0.74 U	0.078 U	0.71 U	0.76 U	0.76 U	0.78 U	0.68 U	0.89 U	0.089 U	0.11 U
Di-n-ocytlphthalate	mg/kg	8,200	0.08 U	0.77 U	0.78 U	0.7 U	0.78 U	0.74 U	0.078 UJ	0.71 UJ	0.76 UJ	0.76 U	0.78 U	0.68 U	0.89 U	0.089 U	0.11 U
Fluoranthene	mg/kg	30,000	0.008 U	**0.29**	**0.28**	**0.0066 J**	**1.1**	**0.04**	**0.033**	**0.37**	**11.9**	**0.61**	**0.4**	**0.057 J**	**0.049 J**	**0.15**	**0.1**
Fluorene	mg/kg	30,000	0.008 U	**0.023 J**	**0.029 J**	0.07 U	**0.15**	**0.005 J**	**0.0019 J**	**0.061**	**0.24**	**0.16**	**0.082**	**0.0078 J**	**0.015 J**	**0.002 J**	**0.0037 J**
Hexachloroethane	mg/kg	8	0.08 U	0.77 U	0.78 U	0.7 U	0.78 U	0.74 U	0.078 U	0.71 U	0.76 U	0.76 U	0.78 U	0.68 U	0.89 U	0.089 U	0.11 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	0.008 U	**0.039 J**	**0.041 J**	0.07 U	**0.16**	**0.0085**	**0.011**	**0.11**	**7.9 J**	**0.078**	**0.044 J**	0.068 U	0.087 U	**0.081**	**0.044**
Naphthalene	mg/kg	8.6	0.008 U	**0.048 J**	**0.056 J**	0.07 U	**0.19**	**0.0078 J**	**0.0023 J**	**0.016 J**	**0.45 J**	**0.17**	**0.13**	0.068 U	0.087 U	**0.013 J**	**0.018 J**
N-Nitroso-di-n-propylamine	mg/kg	0.33	0.08 U	0.77 U	0.78 U	0.7 U	0.78 U	0.74 U	0.078 U	0.71 U	0.76 U	0.76 U	0.78 U	0.68 U	0.89 U	0.089 U	0.11 U
N-Nitrosodiphenylamine	mg/kg	470	0.08 U	0.77 U	0.78 U	0.7 U	0.78 U	0.74 U	0.078 U	0.71 U	0.76 U	0.76 U	0.78 U	0.68 U	0.89 U	0.089 U	0.11 U
Phenanthrene	mg/kg		0.008 U	**0.19**	**0.15**	**0.013 J**	**0.83**	**0.051**	**0.015**	**0.15**	**2.1**	**0.66**	**0.5**	**0.032 J**	**0.056 J**	**0.026**	**0.044**
Phenol	mg/kg	250,000	0.08 U	0.77 U	0.78 U	0.7 U	0.78 U	0.74 U	0.078 U	0.71 U	0.76 U	0.76 U	0.78 U	0.68 U	0.89 U	0.089 U	0.11 U
Pyrene	mg/kg	23,000	0.008 U	**0.29**	**0.3**	**0.0095 J**	**1**	**0.046**	**0.029**	**0.31**	**9.8**	**0.6**	**0.42**	**0.071**	**0.054 J**	**0.12**	**0.091**
PCBs																	
Aroclor 1248	mg/kg	0.94	N/A	0.095 U	N/A	0.089 U	N/A	0.019 U	N/A	0.018 U	N/A	0.019 U	N/A	0.17 U	N/A	0.023 U	0.027 U
Aroclor 1254	mg/kg	0.97	N/A	0.095 U	N/A	0.089 U	N/A	0.019 U	N/A	0.018 U	N/A	0.019 U	N/A	0.17 U	N/A	0.023 U	0.027 U
Aroclor 1260	mg/kg	0.99	N/A	0.095 U	N/A	0.089 U	N/A	0.019 U	N/A	0.018 U	N/A	0.019 U	N/A	0.17 U	N/A	0.023 U	0.027 U
Aroclor 1268	mg/kg		N/A	0.095 U	N/A	0.089 U	N/A	0.019 U	N/A	0.018 U	N/A	0.019 U	N/A	0.17 U	N/A	0.023 U	0.027 U
PCBs (total)	mg/kg	0.97	N/A	0.85 U	N/A	0.8 U	N/A	0.17 U	N/A	0.16 U	N/A	0.17 U	N/A	1.5 U	N/A	0.21 U	0.24 U
TPH/Oil & Grease																	
Diesel Range Organics	mg/kg	6,200	8 U	**69**	**137**	**29.5**	**521**	**43.3 J**	**19 J**	**33.6 J**	**175 J**	**404**	**173**	**18.6**	**9.9**	**23.6 J**	**60.4 J**
Gasoline Range Organics	mg/kg	6,200	13.1 U	13.3 U	10 U	9.1 U	14.1 U	10.7 U	10.6 U	9.5 U	18.8 U	12.1 U	11.2 U	9 U	11.5 U	15.1 U	19.1 U
Oil & Grease	mg/kg	6,200	**311**	**1,760**	**1,510**	**3,700**	**4,870**	**4,610 J+**	**551 J+**	**723 J+**	**4,730 J+**	**839**	**894**	**5,600**	**840**	**1,130 J+**	**1,950 J+**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A indicates that the parameter was not analyzed for this sample
*indicates non-validated data
^PAH compounds were analyzed via SIM

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.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 5 - Parcel B7 & Parcel B25
Summary of Organics Detected in Soil

Parameter	Units	PAL	B7-028-SB-1	B7-028-SB-2	B7-029-SB-1*	B7-029-SB-2*	B7-029-SB-5*	B7-030-SB-1	B7-030-SB-2	B7-031-SB-1*	B7-031-SB-2*	B7-031-SB-5*	B7-032-SB-1*	B7-032-SB-2*	B7-032-SB-5*	B7-033-SB-1	B7-033-SB-2
			10/4/2018	10/4/2018	10/5/2018	10/5/2018	10/5/2018	10/3/2018	10/3/2018	10/8/2018	10/8/2018	10/8/2018	12/21/2020	12/21/2020	12/21/2020	10/4/2018	10/4/2018
Volatile Organic Compounds																	
1,2-Dichlorobenzene	mg/kg	9,300	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	N/A	N/A
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	N/A	N/A
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	N/A	N/A
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	N/A	N/A
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	N/A	N/A
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	N/A	N/A
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	N/A	N/A
Methyl tert-butyl ether (MTBE)	mg/kg	210	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	N/A	N/A
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	N/A	N/A
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	N/A	N/A
Semi-Volatile Organic Compounds^																	
1,1-Biphenyl	mg/kg	200	0.073 U	0.077 U	0.086 U	0.081 U	0.079 U	0.073 U	0.73 U	0.091 U	0.079 U	0.078 U	0.82 U	0.079 U	0.083 U	0.08 U	0.79 U
2,4-Dinitrophenol	mg/kg	1,600	0.18 U	0.19 U	0.22 U	0.2 U	0.2 U	0.18 R	1.8 UJ	0.23 U	0.2 U	0.2 U	2 U	0.2 U	0.21 U	0.2 U	2 U
2,4-Dinitrotoluene	mg/kg	7.4	0.073 U	0.077 U	0.086 U	0.081 U	0.079 U	0.073 U	0.73 U	0.091 U	0.079 U	0.078 U	0.82 U	0.079 U	0.083 U	0.08 U	0.79 U
2-Methylnaphthalene	mg/kg	3,000	**0.0079**	0.0079 U	**0.0039 J**	0.008 U	0.008 U	**0.051**	**0.091**	**0.02**	**0.0022 J**	0.0078 U	**0.005 J**	**0.0094**	0.0084 U	**0.0045 J**	**0.018**
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.15 U	0.15 U	0.17 U	0.16 U	0.16 U	0.15 R	1.5 U	0.18 U	0.16 U	0.16 U	1.6 U	0.16 U	0.17 U	0.16 U	1.6 U
Acenaphthene	mg/kg	45,000	**0.001 J**	0.0079 U	0.0086 U	0.008 U	0.008 U	**0.013**	**0.38**	**0.0038 J**	0.008 U	0.0078 U	**0.0013 J**	**0.0022 J**	0.0084 U	0.008 U	**0.004 J**
Acenaphthylene	mg/kg	45,000	**0.002 J**	0.0079 U	0.0086 U	0.008 U	0.008 U	**0.019**	**0.13**	**0.0053 J**	0.008 U	0.0078 U	**0.0024 J**	**0.0056 J**	0.0084 U	**0.0036 J**	**0.057**
Acetophenone	mg/kg	120,000	0.073 U	0.077 U	0.086 U	0.081 U	0.079 U	0.073 U	0.73 U	0.091 U	0.079 U	0.078 U	0.82 U	0.079 U	0.083 U	0.08 U	0.79 U
Anthracene	mg/kg	230,000	**0.0023 J**	0.0079 U	**0.0022 J**	0.008 U	0.008 U	**0.053**	**0.67**	**0.0086 J**	**0.00089 J**	0.0078 U	**0.0035 J**	**0.0097**	0.0084 U	**0.0035 J**	**0.04**
Benz[a]anthracene	mg/kg	21	**0.012**	0.0079 U	**0.014**	**0.0013 J**	0.008 U	**0.21 J**	**1.8**	**0.047**	**0.0052 J**	0.0078 U	**0.019**	**0.043**	0.0084 U	**0.025**	**0.22**
Benzaldehyde	mg/kg	120,000	0.073 U	0.077 U	0.086 U	0.081 U	0.079 U	0.073 U	0.73 U	0.091 U	0.079 U	0.078 U	0.82 U	0.079 U	0.083 U	0.08 U	0.79 U
Benzo[a]pyrene	mg/kg	2.1	**0.017**	0.0079 U	**0.014**	**0.0008 J**	0.008 U	**0.17 J**	**1.6**	**0.046**	**0.0043 J**	0.0078 U	**0.024**	**0.047**	0.0084 U	**0.026**	**0.24**
Benzo[b]fluoranthene	mg/kg	21	**0.04**	0.0079 U	**0.019**	**0.0013 J**	0.008 U	**0.29 J**	**2.8**	**0.099**	**0.0071 J**	0.0078 U	**0.061**	**0.11**	0.0084 U	**0.051**	**0.47**
Benzo[g,h,i]perylene	mg/kg		**0.014**	0.0079 U	**0.0086 J**	0.008 U	0.008 U	**0.14 J**	**1.2**	**0.02**	**0.0019 J**	0.0078 U	**0.011**	**0.01**	0.0084 U	**0.015**	**0.12**
Benzo[k]fluoranthene	mg/kg	210	**0.035**	0.0079 U	**0.0082 J**	0.008 U	0.008 U	**0.088 J**	**0.9**	**0.087**	**0.0029 J**	0.0078 U	**0.055**	**0.096**	0.0084 U	**0.045**	**0.41**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.073 U	0.077 U	0.086 U	0.081 U	0.079 U	**0.24**	0.73 U	0.091 U	0.079 U	0.078 U	**0.23 J**	**0.02 J**	**0.025 J**	0.08 U	0.79 U
Caprolactam	mg/kg	400,000	0.18 U	0.19 U	0.22 U	0.2 U	0.2 U	0.18 U	1.8 U	0.23 U	0.2 U	0.2 U	2 U	0.2 U	**0.028 J**	0.2 U	2 U
Carbazole	mg/kg		0.073 U	0.077 U	0.086 U	0.081 U	0.079 U	0.073 U	**0.41 J**	0.091 U	0.079 U	0.078 U	0.82 U	0.079 U	0.083 U	0.08 U	0.79 U
Chrysene	mg/kg	2,100	**0.019**	0.0079 U	**0.015**	**0.00051 J**	0.008 U	**0.22 J**	**2**	**0.052**	**0.0045 J**	0.0078 U	**0.026**	**0.051**	0.0084 U	**0.027**	**0.21**
Dibenz[a,h]anthracene	mg/kg	2.1	**0.0046 J**	0.0079 U	**0.0026 J**	0.008 U	0.008 U	**0.046 J**	**0.41**	**0.0077 J**	0.008 U	0.0078 U	**0.0036 J**	**0.0044 J**	0.0084 U	**0.0054 J**	**0.043**
Di-n-butylphthalate	mg/kg	82,000	0.073 U	0.077 U	0.086 U	0.081 U	0.079 U	0.073 U	0.73 U	0.091 U	0.079 U	0.078 U	0.82 U	**0.026 J**	**0.048 J**	0.08 U	0.79 U
Di-n-ocytlphthalate	mg/kg	8,200	0.073 U	0.077 U	0.086 U	0.081 U	0.079 U	**0.33**	0.56 B	0.091 U	0.079 U	0.078 U	0.82 U	0.079 U	0.083 U	0.08 U	0.79 U
Fluoranthene	mg/kg	30,000	**0.023**	0.0079 U	**0.024**	**0.00078 J**	0.008 U	**0.29**	**2.9**	**0.078**	**0.0075 J**	0.0078 U	**0.027**	**0.087**	0.0084 U	**0.042**	**0.38**
Fluorene	mg/kg	30,000	**0.0012 J**	0.0079 U	0.0086 U	0.008 U	0.008 U	**0.0058 J**	**0.24**	**0.0033 J**	0.008 U	0.0078 U	**0.0014 J**	**0.0034 J**	0.0084 U	0.008 U	**0.01**
Hexachloroethane	mg/kg	8	0.073 U	0.077 U	0.086 U	0.081 U	0.079 U	0.073 U	0.73 U	0.091 U	0.079 U	0.078 U	0.82 U	0.079 U	0.083 U	0.08 U	0.79 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	**0.012**	0.0079 U	**0.0074 J**	0.008 U	0.008 U	**0.14 J**	**1.1**	**0.021**	**0.0019 J**	0.0078 U	**0.0094**	**0.011**	0.0084 U	**0.015**	**0.13**
Naphthalene	mg/kg	8.6	**0.008 J**	0.0079 UJ	**0.0046 J**	0.008 U	0.008 U	**0.072**	**0.15**	**0.019**	**0.0024 J**	0.0078 U	**0.0067 J**	**0.0066 J**	**0.0029 J**	**0.0049 J**	**0.073 J**
N-Nitroso-di-n-propylamine	mg/kg	0.33	0.073 U	0.077 U	0.086 U	0.081 U	0.079 U	0.073 U	0.73 U	0.091 U	0.079 U	0.078 U	0.82 U	0.079 U	0.083 U	0.08 U	0.79 U
N-Nitrosodiphenylamine	mg/kg	470	0.073 U	0.077 U	0.086 U	0.081 U	0.079 U	0.073 U	0.73 U	0.091 U	0.079 U	0.078 U	0.82 U	0.079 U	0.083 U	0.08 U	0.79 U
Phenanthrene	mg/kg		**0.015**	0.0079 U	**0.012**	0.008 U	0.008 U	**0.29**	**2.1**	**0.048**	**0.0049 J**	0.0078 U	**0.013**	**0.059**	0.0084 U	**0.02**	**0.12**
Phenol	mg/kg	250,000	0.073 U	0.077 U	0.086 U	0.081 U	0.079 U	0.073 R	0.73 U	0.091 U	0.079 U	0.078 U	0.82 U	0.079 U	0.083 U	0.08 U	0.79 U
Pyrene	mg/kg	23,000	**0.02**	0.0079 U	**0.022**	0.008 U	0.008 U	**0.23**	**2.4**	**0.061**	**0.0064 J**	0.0078 U	**0.027**	**0.079**	0.0084 U	**0.037**	**0.34**
PCBs																	
Aroclor 1248	mg/kg	0.94	0.019 UJ	N/A	0.022 U	N/A	N/A	0.018 UJ	N/A	0.023 U	N/A	N/A	0.21 U	N/A	N/A	0.02 UJ	N/A
Aroclor 1254	mg/kg	0.97	0.019 U	N/A	0.022 U	N/A	N/A	**0.09 J**	N/A	0.023 U	N/A	N/A	0.21 U	N/A	N/A	0.02 U	N/A
Aroclor 1260	mg/kg	0.99	0.019 U	N/A	0.022 U	N/A	N/A	0.018 U	N/A	0.023 U	N/A	N/A	0.21 U	N/A	N/A	0.02 U	N/A
Aroclor 1268	mg/kg		0.019 UJ	N/A	0.022 U	N/A	N/A	**0.023**	N/A	**0.032**	N/A	N/A	0.21 U	N/A	N/A	0.02 UJ	N/A
PCBs (total)	mg/kg	0.97	0.17 U	N/A	0.19 U	N/A	N/A	**0.11 J**	N/A	0.2 U	N/A	N/A	0.21 U	N/A	N/A	0.18 U	N/A
TPH/Oil & Grease																	
Diesel Range Organics	mg/kg	6,200	**28.1 J**	7.9 UJ	**6.6 J**	8.2 U	8 U	**51.3 J**	**79.7 J**	**22.6**	**8.9**	**4.6 J**	**195**	**28.8**	**11.7 J**	**18.1 J**	**31.4 J**
Gasoline Range Organics	mg/kg	6,200	15.7 U	10.6 U	14.4 U	16 U	13.2 U	12.9 U	12.6 U	18 U	10.4 U	11 U	15 U	13.4 U	12.4 U	10.5 U	11.3 U
Oil & Grease	mg/kg	6,200	**600**	**382**	**534**	**475**	**434**	**415 J-**	**425 J-**	**449**	**388**	**373**	**1,090**	**315 J**	500 U	**425**	**621**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A indicates that the parameter was not analyzed for this sample
*indicates non-validated data
^PAH compounds were analyzed via SIM

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.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 5 - Parcel B7 & Parcel B25
Summary of Organics Detected in Soil

Parameter	Units	PAL	B7-033-SB-5 10/4/2018	B7-034-SB-1* 10/2/2018	B7-034-SB-2* 10/2/2018	B7-034-SB-7* 10/2/2018	B7-035-SB-1* 10/5/2018	B7-035-SB-2* 10/5/2018	B7-035-SB-5* 10/5/2018	B7-036-SB-1 10/4/2018	B7-036-SB-2 10/4/2018	B7-036-SB-5 10/4/2018	B7-037-SB-1* 10/5/2018	B7-037-SB-2* 10/5/2018	B7-037-SB-5* 10/5/2018	B7-038-SB-1* 10/2/2018	B7-038-SB-2* 10/2/2018
Volatile Organic Compounds																	
1,2-Dichlorobenzene	mg/kg	9,300	N/A	N/A	N/A	0.0044 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Butanone (MEK)	mg/kg	190,000	N/A	N/A	N/A	0.0088 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acetone	mg/kg	670,000	N/A	N/A	N/A	0.0088 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	mg/kg	5.1	N/A	N/A	N/A	0.0044 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbon disulfide	mg/kg	3,500	N/A	N/A	N/A	0.0044 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyclohexane	mg/kg	27,000	N/A	N/A	N/A	0.0088 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	mg/kg	25	N/A	N/A	N/A	0.0044 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methyl tert-butyl ether (MTBE)	mg/kg	210	N/A	N/A	N/A	0.0044 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	mg/kg	47,000	N/A	N/A	N/A	0.0044 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes	mg/kg	2,800	N/A	N/A	N/A	0.013 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-Volatile Organic Compounds^																	
1,1-Biphenyl	mg/kg	200	0.077 U	0.081 U	0.078 U	0.076 U	0.086 U	0.078 U	0.08 U	0.085 U	0.08 U	0.076 U	0.09 U	0.078 U	0.076 U	0.094 U	0.082 U
2,4-Dinitrophenol	mg/kg	1,600	0.19 U	0.2 U	0.19 U	0.19 U	0.22 U	0.2 U	0.2 U	0.21 U	0.2 U	0.19 U	0.22 U	0.2 U	0.19 U	0.24 U	0.21 U
2,4-Dinitrotoluene	mg/kg	7.4	0.077 U	0.081 U	0.078 U	0.076 U	0.086 U	0.078 U	0.08 U	0.085 U	0.08 U	0.076 U	0.09 U	0.078 U	0.076 U	0.094 U	0.082 U
2-Methylnaphthalene	mg/kg	3,000	0.0077 U	**0.0032 J**	**0.0023 J**	0.0077 U	**0.0087 J**	**0.0024 J**	0.0079 U	**0.026**	**0.0025 J**	0.0077 U	0.0089 U	0.0079 U	0.0077 U	**0.044**	0.0082 U
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.15 U	0.16 U	0.15 U	0.15 U	0.17 U	0.16 U	0.16 U	0.17 U	0.16 U	0.15 U	0.18 U	0.16 U	0.15 U	0.19 U	0.16 U
Acenaphthene	mg/kg	45,000	0.0077 U	**0.0013 J**	0.0078 U	0.0077 U	**0.0016 J**	0.008 U	0.0079 U	**0.0059 J**	0.0081 U	0.0077 U	0.0089 U	0.0079 U	0.0077 U	**0.03**	0.0082 U
Acenaphthylene	mg/kg	45,000	0.0077 U	**0.0066 J**	**0.0049 J**	0.0077 U	**0.0021 J**	**0.001 J**	0.0079 U	**0.0043 J**	**0.001 J**	0.0077 U	0.0089 U	0.0079 U	0.0077 U	**0.059**	0.0082 U
Acetophenone	mg/kg	120,000	0.077 U	0.081 U	0.078 U	0.076 U	0.086 U	0.078 U	0.08 U	0.085 U	0.08 U	0.076 U	0.09 U	0.078 U	0.076 U	0.094 U	0.082 U
Anthracene	mg/kg	230,000	**0.00092 J**	**0.0087**	**0.0033 J**	0.0077 U	**0.0037 J**	**0.0022 J**	0.0079 U	**0.019**	**0.0022 J**	0.0077 U	**0.00081 J**	0.0079 U	0.0077 U	**0.1**	0.0082 U
Benz[a]anthracene	mg/kg	21	**0.0038 J**	**0.032**	**0.015**	0.0077 U	**0.024**	**0.012**	0.0079 U	**0.055**	**0.012**	0.0077 U	**0.0069 J**	**0.0029 J**	0.0077 U	**0.26**	**0.0059 J**
Benzaldehyde	mg/kg	120,000	0.077 U	0.081 U	0.078 U	0.076 U	0.086 U	0.078 U	0.08 U	0.085 U	0.08 U	0.076 U	0.09 U	0.078 U	0.076 U	0.094 U	0.082 U
Benzo[a]pyrene	mg/kg	2.1	**0.0031 J**	**0.026**	**0.014**	0.0077 U	**0.024**	**0.01**	0.0079 U	**0.056**	**0.011**	0.0077 U	**0.0069 J**	**0.0022 J**	0.0077 U	**0.22**	**0.0046 J**
Benzo[b]fluoranthene	mg/kg	21	**0.0062 J**	**0.039**	**0.028**	0.0077 U	**0.037**	**0.016**	0.0079 U	**0.1**	**0.021**	0.0077 U	**0.01**	**0.003 J**	0.0077 U	**0.47**	**0.011**
Benzo[g,h,i]perylene	mg/kg		**0.002 J**	**0.0089**	**0.005 J**	0.0077 U	**0.017**	**0.0064 J**	0.0079 U	**0.032**	**0.0068 J**	0.0077 U	**0.0048 J**	**0.0014 J**	0.0077 U	**0.066**	0.0082 U
Benzo[k]fluoranthene	mg/kg	210	**0.0055 J**	**0.016**	**0.026**	0.0077 U	**0.013**	**0.0055 J**	0.0079 U	**0.09**	**0.019**	0.0077 U	**0.0036 J**	0.0079 U	0.0077 U	**0.42**	**0.0096**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.077 U	0.081 U	0.078 U	0.076 U	0.086 U	0.078 U	0.08 U	0.085 U	0.08 U	0.076 U	0.09 U	0.078 U	0.076 U	0.094 U	0.082 U
Caprolactam	mg/kg	400,000	0.19 U	0.2 U	0.19 U	0.19 U	0.22 U	0.2 U	0.2 U	0.21 U	0.2 U	0.19 U	0.22 U	0.2 U	0.19 U	0.24 U	0.21 U
Carbazole	mg/kg		0.077 U	0.081 U	0.078 U	0.076 U	0.086 U	0.078 U	0.08 U	0.085 U	0.08 U	0.076 U	0.09 U	0.078 U	0.076 U	0.094 U	0.082 U
Chrysene	mg/kg	2,100	**0.0038 J**	**0.03**	**0.013**	0.0077 U	**0.027**	**0.012**	0.0079 U	**0.06**	**0.012**	0.0077 U	**0.0072 J**	**0.002 J**	0.0077 U	**0.25**	**0.0036 J**
Dibenz[a,h]anthracene	mg/kg	2.1	0.0077 U	**0.0032 J**	**0.0017 J**	0.0077 U	**0.0052 J**	**0.002 J**	0.0079 U	**0.011**	**0.0022 J**	0.0077 U	0.0089 U	0.0079 U	0.0077 U	**0.03**	0.0082 U
Di-n-butylphthalate	mg/kg	82,000	0.077 U	0.081 U	0.078 U	0.076 U	0.086 U	0.078 U	0.08 U	0.085 U	0.08 U	0.076 U	0.09 U	0.078 U	0.076 U	0.094 U	0.082 U
Di-n-ocytlphthalate	mg/kg	8,200	0.077 U	**0.059 J**	**0.058 J**	**0.057 J**	0.086 U	0.078 U	0.08 U	0.085 U	0.08 U	0.076 U	0.09 U	0.078 U	0.076 U	**0.072 J**	**0.063 J**
Fluoranthene	mg/kg	30,000	**0.0061 J**	**0.05**	**0.023**	0.0077 U	**0.045**	**0.021**	0.0079 U	**0.1**	**0.021**	0.0077 U	**0.01**	**0.0033 J**	0.0077 U	**0.61**	**0.0054 J**
Fluorene	mg/kg	30,000	0.0077 U	**0.0014 J**	0.0078 U	0.0077 U	**0.0015 J**	0.008 U	0.0079 U	**0.0071 J**	0.0081 U	0.0077 U	0.0089 U	0.0079 U	0.0077 U	**0.039**	0.0082 U
Hexachloroethane	mg/kg	8	0.077 U	0.081 U	0.078 U	0.076 U	0.086 U	0.078 U	0.08 U	0.085 U	0.08 U	0.076 U	0.09 U	0.078 U	0.076 U	0.094 U	0.082 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	**0.0019 J**	**0.0098**	**0.0053 J**	0.0077 U	**0.016**	**0.006 J**	0.0079 U	**0.03**	**0.0065 J**	0.0077 U	**0.0043 J**	0.0079 U	0.0077 U	**0.078**	0.0082 U
Naphthalene	mg/kg	8.6	**0.0016 J**	**0.0032 J**	**0.0055 J**	0.0077 U	**0.0098**	**0.0028 J**	0.0079 U	**0.025 J**	**0.003 J**	0.0077 UJ	0.0089 U	0.0079 U	0.0077 U	**0.14**	0.0082 U
N-Nitroso-di-n-propylamine	mg/kg	0.33	0.077 U	0.081 U	0.078 U	0.076 U	0.086 U	0.078 U	0.08 U	0.085 U	0.08 U	0.076 U	0.09 U	0.078 U	0.076 U	0.094 U	0.082 U
N-Nitrosodiphenylamine	mg/kg	470	0.077 U	0.081 U	0.078 U	0.076 U	0.086 U	0.078 U	0.08 U	0.085 U	0.08 U	0.076 U	0.09 U	0.078 U	0.076 U	0.094 U	0.082 U
Phenanthrene	mg/kg		**0.0052 J**	**0.03**	**0.0098**	0.0077 U	**0.02**	**0.01**	0.0079 U	**0.098**	**0.011**	0.0077 U	**0.0048 J**	**0.0016 J**	0.0077 U	**0.32**	**0.0017 J**
Phenol	mg/kg	250,000	0.077 U	0.081 U	0.078 U	0.076 U	0.086 U	0.078 U	0.08 U	0.085 U	0.08 U	0.076 U	0.09 U	0.078 U	0.076 U	0.094 U	0.082 U
Pyrene	mg/kg	23,000	**0.0053 J**	**0.05**	**0.019**	0.0077 U	**0.039**	**0.018**	0.0079 U	**0.092**	**0.018**	0.0077 U	**0.0094**	**0.0029 J**	0.0077 U	**0.44**	**0.0051 J**
PCBs																	
Aroclor 1248	mg/kg	0.94	N/A	0.02 U	N/A	N/A	0.022 U	N/A	N/A	0.021 UJ	N/A	N/A	0.023 U	N/A	N/A	0.024 U	N/A
Aroclor 1254	mg/kg	0.97	N/A	0.02 U	N/A	N/A	0.022 U	N/A	N/A	0.021 U	N/A	N/A	0.023 U	N/A	N/A	0.024 U	N/A
Aroclor 1260	mg/kg	0.99	N/A	0.02 U	N/A	N/A	0.022 U	N/A	N/A	0.021 U	N/A	N/A	0.023 U	N/A	N/A	0.024 U	N/A
Aroclor 1268	mg/kg		N/A	0.02 U	N/A	N/A	**0.01 J**	N/A	N/A	0.021 UJ	N/A	N/A	0.023 U	N/A	N/A	0.024 U	N/A
PCBs (total)	mg/kg	0.97	N/A	0.18 U	N/A	N/A	0.2 U	N/A	N/A	0.19 U	N/A	N/A	0.2 U	N/A	N/A	0.21 U	N/A
TPH/Oil & Grease																	
Diesel Range Organics	mg/kg	6,200	**11.3 J**	**9.8**	**5.8 J**	7.9 U	**14.4**	**5.7 J**	7.9 U	**18.5 J**	**7.8 J**	7.7 UJ	9.1 U	7.9 U	**4.9 J**	**101**	**7.7 J**
Gasoline Range Organics	mg/kg	6,200	11.7 U	10.6 U	11.9 U	8.9 U	12.8 U	11.2 U	10.9 U	13.6 U	10.5 U	11 U	18.2 U	10.2 U	11.2 U	15 U	10.1 U
Oil & Grease	mg/kg	6,200	**444**	**364**	**378**	**325**	**464**	**420**	**470**	**659**	**476**	**418**	**475**	**462**	**515**	**961**	**449**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A indicates that the parameter was not analyzed for this sample
*indicates non-validated data
^PAH compounds were analyzed via SIM

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.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 5 - Parcel B7 & Parcel B25
Summary of Organics Detected in Soil

Parameter	Units	PAL	B7-038-SB-8* 10/2/2018	B7-039-SB-1 10/4/2018	B7-039-SB-2 10/4/2018	B7-039-SB-5 10/4/2018	B7-040-SB-1* 10/2/2018	B7-040-SB-2* 10/2/2018	B7-040-SB-7* 10/2/2018	B7-041-SB-1 10/3/2018	B7-041-SB-2 10/3/2018	B7-041-SB-5 10/3/2018	B7-042-SB-1 10/4/2018	B7-042-SB-2 10/4/2018	B7-042-SB-5 10/4/2018	B7-043-SB-1* 10/5/2018	B7-043-SB-2* 10/5/2018	B7-043-SB-4* 10/5/2018
Volatile Organic Compounds																		
1,2-Dichlorobenzene	mg/kg	9,300	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	0.007 U	0.0049 U	0.005 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	0.014 U	0.0098 U	0.01 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	0.014 U	0.0098 U	0.01 U
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	0.007 U	0.0049 U	0.005 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	0.007 U	0.0049 U	0.005 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	0.014 U	0.0098 U	0.01 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	0.007 U	0.0049 U	0.005 U
Methyl tert-butyl ether (MTBE)	mg/kg	210	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	0.007 U	0.0049 U	0.005 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	0.007 U	0.0049 U	0.005 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	0.021 U	0.015 U	0.015 U
Semi-Volatile Organic Compounds^																		
1,1-Biphenyl	mg/kg	200	0.083 U	0.083 U	0.078 U	0.076 U	**0.45 J**	0.077 U	0.084 U	0.081 U	0.088 U	0.079 U	0.098 U	0.08 U	0.077 U	0.08 U	0.077 U	0.082 U
2,4-Dinitrophenol	mg/kg	1,600	0.21 U	0.21 U	0.2 U	0.19 U	1.9 U	0.19 U	0.21 U	0.2 UJ	0.22 UJ	0.2 UJ	0.25 U	0.2 U	0.19 U	0.2 U	0.19 U	0.21 U
2,4-Dinitrotoluene	mg/kg	7.4	0.083 U	0.083 U	0.078 U	0.076 U	0.77 U	0.077 U	0.084 U	0.081 U	0.088 U	0.079 U	0.098 U	0.08 U	0.077 U	0.08 U	0.077 U	0.082 U
2-Methylnaphthalene	mg/kg	3,000	0.0084 U	**0.0042 J**	0.0079 U	0.0076 U	**2.5**	**0.044**	0.0085 U	**0.0095**	**0.0043 J**	0.0079 U	**0.023**	0.0082 U	0.0077 U	**0.002 J**	0.0078 U	0.0082 U
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.17 U	0.16 U	0.16 U	0.15 U	**0.56 J**	0.15 U	0.17 U	0.16 U	0.18 U	0.16 U	0.2 U	0.16 U	0.15 U	0.16 U	0.15 U	0.16 U
Acenaphthene	mg/kg	45,000	0.0084 U	0.0082 U	0.0079 U	0.0076 U	**2.2**	**0.041**	0.0085 U	**0.0044 J**	**0.0012 J**	0.0079 U	**0.0027 J**	0.0082 U	0.0077 U	0.0081 U	0.0078 U	0.0082 U
Acenaphthylene	mg/kg	45,000	0.0084 U	0.0082 U	0.0079 U	0.0076 U	**70.1**	**0.24**	**0.046**	**0.026**	**0.0088**	0.0079 U	**0.037**	0.0082 U	0.0077 U	0.0081 U	0.0078 U	0.0082 U
Acetophenone	mg/kg	120,000	0.083 U	0.083 U	0.078 U	0.076 U	0.77 U	0.077 U	0.084 U	0.081 U	0.088 U	0.079 U	0.098 U	0.08 U	0.077 U	0.08 U	0.077 U	0.082 U
Anthracene	mg/kg	230,000	0.0084 U	**0.0024 J**	0.0079 U	0.0076 U	**114**	**0.26**	**0.009**	**0.033**	0.0083 B	0.0079 U	**0.027**	**0.00076 J**	0.0077 U	0.0081 U	0.0078 U	0.0082 U
Benz[a]anthracene	mg/kg	21	0.0084 U	**0.013**	0.0079 U	0.0076 U	**479**	**0.63**	**0.0098**	**0.12**	**0.043**	0.0079 U	**0.13**	**0.0063 J**	0.0077 U	**0.0049 J**	0.0078 U	0.0082 U
Benzaldehyde	mg/kg	120,000	0.083 U	0.083 U	0.078 U	0.076 U	0.77 U	0.077 U	0.084 U	0.081 U	0.088 U	0.079 U	0.098 U	0.08 U	0.077 U	0.08 U	0.077 U	0.082 U
Benzo[a]pyrene	mg/kg	2.1	0.0084 U	**0.013**	0.0079 U	0.0076 U	**298**	**0.5**	**0.0068 J**	**0.11**	**0.039**	0.0079 U	**0.14**	**0.0053 J**	0.0077 U	**0.0066 J**	0.0078 U	0.0082 U
Benzo[b]fluoranthene	mg/kg	21	0.0084 U	**0.024**	0.0079 U	0.0076 U	**464**	**0.8**	**0.014**	**0.15**	**0.07**	0.0079 U	**0.26**	**0.01**	0.0077 U	**0.011**	0.0078 U	0.0082 U
Benzo[g,h,i]perylene	mg/kg		0.0084 U	**0.007 J**	0.0079 U	0.0076 U	**86.5**	**0.16**	**0.0018 J**	**0.055**	**0.019**	0.0079 U	**0.075**	**0.0027 J**	0.0077 U	**0.0055 J**	0.0078 U	0.0082 U
Benzo[k]fluoranthene	mg/kg	210	0.0084 U	**0.021**	0.0079 U	0.0076 U	**106**	**0.34**	**0.012**	**0.063**	**0.064**	0.0079 U	**0.23**	**0.0089**	0.0077 U	**0.0036 J**	0.0078 U	0.0082 U
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.083 U	0.083 U	0.078 U	0.076 U	0.77 U	0.077 U	0.084 U	0.081 U	0.088 U	0.079 U	0.098 U	0.08 U	0.077 U	0.08 U	0.077 U	0.082 U
Caprolactam	mg/kg	400,000	0.21 U	0.21 U	0.2 U	0.19 U	1.9 U	0.19 U	0.21 U	0.2 U	0.22 U	0.2 U	0.25 U	0.2 U	0.19 U	0.2 U	0.19 U	0.21 U
Carbazole	mg/kg		0.083 U	0.083 U	0.078 U	0.076 U	**16.6**	**0.071 J**	0.084 U	0.081 U	0.088 U	0.079 U	0.098 U	0.08 U	0.077 U	0.08 U	0.077 U	0.082 U
Chrysene	mg/kg	2,100	0.0084 U	**0.014**	0.0079 U	0.0076 U	**380**	**0.56**	**0.0057 J**	**0.12**	**0.041**	0.0079 U	**0.13**	**0.0058 J**	0.0077 U	**0.0057 J**	0.0078 U	0.0082 U
Dibenz[a,h]anthracene	mg/kg	2.1	0.0084 U	**0.0025 J**	0.0079 U	0.0076 U	**35.7**	**0.068**	0.0085 U	**0.019**	**0.007 J**	0.0079 U	**0.026**	0.0082 U	0.0077 U	0.0081 U	0.0078 U	0.0082 U
Di-n-butylphthalate	mg/kg	82,000	0.083 U	0.083 U	0.078 U	0.076 U	0.77 U	0.077 U	0.084 U	0.081 U	0.088 U	0.079 U	0.098 U	0.08 U	0.077 U	0.08 U	0.077 U	0.082 U
Di-n-ocytlphthalate	mg/kg	8,200	**0.062 J**	0.083 U	0.078 U	0.076 U	0.77 U	**0.059 J**	**0.062 J**	0.061 B	0.065 B	0.058 B	0.098 U	0.08 U	0.077 U	0.08 U	0.077 U	0.082 U
Fluoranthene	mg/kg	30,000	0.0084 U	**0.022**	0.0079 U	0.0076 U	**1,240**	**1.2**	**0.023**	**0.23**	**0.047**	0.0079 U	**0.23**	**0.0083**	0.0077 U	**0.0058 J**	0.0078 U	0.0082 U
Fluorene	mg/kg	30,000	0.0084 U	0.0082 U	0.0079 U	0.0076 U	**34.2**	**0.063**	**0.0048 J**	**0.0062 J**	**0.0024 J**	0.0079 U	**0.0057 J**	0.0082 U	0.0077 U	0.0081 U	0.0078 U	0.0082 U
Hexachloroethane	mg/kg	8	0.083 U	0.083 U	0.078 U	0.076 U	0.77 U	0.077 U	0.084 U	0.081 U	0.088 U	0.079 U	0.098 U	0.08 U	0.077 U	0.08 U	0.077 U	0.082 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	0.0084 U	**0.0068 J**	0.0079 U	0.0076 U	**100**	**0.18**	0.0085 U	**0.053**	**0.019**	0.0079 U	**0.077**	**0.0028 J**	0.0077 U	**0.0046 J**	0.0078 U	0.0082 U
Naphthalene	mg/kg	8.6	0.0084 U	**0.005 J**	**0.0016 J**	0.0076 UJ	**8.4**	**0.14**	0.0085 U	**0.039**	**0.025**	0.0079 U	**0.09 J**	0.0082 UJ	0.0077 UJ	**0.0019 J**	**0.0015 J**	0.0082 U
N-Nitroso-di-n-propylamine	mg/kg	0.33	0.083 U	0.083 U	0.078 U	0.076 U	0.77 U	**0.054 J**	0.084 U	0.081 U	0.088 U	0.079 U	0.098 U	0.08 U	0.077 U	0.08 U	0.077 U	0.082 U
N-Nitrosodiphenylamine	mg/kg	470	0.083 U	0.083 U	0.078 U	0.076 U	0.77 U	0.077 U	0.084 U	0.081 U	0.088 U	0.079 U	0.098 U	0.08 U	0.077 U	0.08 U	0.077 U	0.082 U
Phenanthrene	mg/kg		0.0084 U	**0.013**	0.0079 U	0.0076 U	**605**	**0.68**	**0.012**	**0.087**	**0.02**	0.0079 U	**0.098**	**0.0033 J**	0.0077 U	**0.0032 J**	0.0078 U	0.0082 U
Phenol	mg/kg	250,000	0.083 U	0.083 U	0.078 U	0.076 U	**1**	0.077 U	0.084 U	0.081 U	0.088 U	0.079 U	0.098 U	0.08 U	0.077 U	0.08 U	0.077 U	0.082 U
Pyrene	mg/kg	23,000	0.0084 U	**0.02**	0.0079 U	0.0076 U	**924**	**0.95**	**0.017**	**0.18**	**0.035**	0.0079 U	**0.18**	**0.007 J**	0.0077 U	**0.0054 J**	0.0078 U	0.0082 U
PCBs																		
Aroclor 1248	mg/kg	0.94	N/A	0.021 UJ	N/A	N/A	0.019 U	N/A	N/A	0.021 UJ	N/A	N/A	0.025 UJ	N/A	N/A	0.02 U	N/A	N/A
Aroclor 1254	mg/kg	0.97	N/A	0.021 U	N/A	N/A	0.019 U	N/A	N/A	0.021 UJ	N/A	N/A	0.025 U	N/A	N/A	0.02 U	N/A	N/A
Aroclor 1260	mg/kg	0.99	N/A	0.021 U	N/A	N/A	0.019 U	N/A	N/A	0.021 U	N/A	N/A	**0.096**	N/A	N/A	0.02 U	N/A	N/A
Aroclor 1268	mg/kg		N/A	0.021 UJ	N/A	N/A	0.019 U	N/A	N/A	0.021 U	N/A	N/A	0.025 UJ	N/A	N/A	0.02 U	N/A	N/A
PCBs (total)	mg/kg	0.97	N/A	0.19 U	N/A	N/A	0.17 U	N/A	N/A	0.19 U	N/A	N/A	**0.096 J**	N/A	N/A	0.18 U	N/A	N/A
TPH/Oil & Grease																		
Diesel Range Organics	mg/kg	6,200	8.3 U	**7.7 J**	**6.9 J**	7.6 UJ	**1,170**	**50**	**5 J**	**15.4 J**	**10.5 J**	7.9 UJ	**18.6 J**	**8.1 J**	7.6 UJ	8.1 U	**5 J**	8.1 U
Gasoline Range Organics	mg/kg	6,200	9.7 U	11.6 U	12.4 U	10.8 U	11.2 U	11.1 U	11 U	13 U	12.2 U	10.2 U	14.9 U	10.6 U	8.6 U	13.6 U	12.1 U	10.4 U
Oil & Grease	mg/kg	6,200	**466**	**410**	**416**	**465**	**1,370**	**258**	**277**	**372 J-**	**408 J-**	**430 J-**	**452**	**380**	**313**	**330**	**383**	**419**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A indicates that the parameter was not analyzed for this sample
*indicates non-validated data
^PAH compounds were analyzed via SIM

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.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 5 - Parcel B7 & Parcel B25
Summary of Organics Detected in Soil

Parameter	Units	PAL	B7-044-SB-1 10/4/2018	B7-044-SB-2 10/4/2018	B7-044-SB-5 10/4/2018	B7-045-SB-1.5 10/30/2018	B7-045-SB-5 10/30/2018	B7-046-SB-1* 10/5/2018	B7-046-SB-4* 10/5/2018	B7-047-SB-1 10/3/2018	B7-047-SB-5 10/3/2018	B7-048-SB-1* 10/8/2018	B7-048-SB-5* 10/8/2018	B7-049-SB-1 10/3/2018	B7-049-SB-5 10/3/2018	B7-050-SB-1* 10/8/2018	B7-050-SB-5* 10/8/2018	B7-051-SB-1 3/7/2019
Volatile Organic Compounds																		
1,2-Dichlorobenzene	mg/kg	9,300	N/A	N/A	N/A	0.005 U	0.0049 U	0.0057 U	N/A	0.0054 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Butanone (MEK)	mg/kg	190,000	N/A	N/A	N/A	0.01 U	0.0098 U	0.011 U	N/A	0.011 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acetone	mg/kg	670,000	N/A	N/A	N/A	**0.021**	**0.031**	**0.027**	N/A	0.011 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	mg/kg	5.1	N/A	N/A	N/A	0.005 U	0.0049 U	0.0057 U	N/A	0.0054 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbon disulfide	mg/kg	3,500	N/A	N/A	N/A	0.005 UJ	0.0049 UJ	0.0057 U	N/A	0.0054 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyclohexane	mg/kg	27,000	N/A	N/A	N/A	0.01 U	0.0098 U	0.011 U	N/A	0.011 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	mg/kg	25	N/A	N/A	N/A	0.005 U	0.0049 U	0.0057 U	N/A	0.0054 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methyl tert-butyl ether (MTBE)	mg/kg	210	N/A	N/A	N/A	0.005 U	0.0049 U	0.0057 U	N/A	0.0054 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	mg/kg	47,000	N/A	N/A	N/A	0.005 U	0.0049 U	0.0057 U	N/A	0.0054 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes	mg/kg	2,800	N/A	N/A	N/A	0.015 U	0.015 U	0.017 U	N/A	0.016 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-Volatile Organic Compounds^																		
1,1-Biphenyl	mg/kg	200	0.081 U	0.085 U	0.079 U	0.77 U	0.8 U	0.073 U	0.079 U	0.086 U	0.08 U	0.73 U	0.084 U	0.072 U	0.077 U	0.086 U	0.076 U	0.83 U
2,4-Dinitrophenol	mg/kg	1,600	0.2 U	0.21 U	0.2 U	1.9 UJ	2 UJ	0.18 U	0.2 U	0.21 UJ	0.2 UJ	1.8 U	0.21 U	0.18 UJ	0.19 UJ	0.22 U	0.19 U	2.1 U
2,4-Dinitrotoluene	mg/kg	7.4	0.081 U	0.085 U	0.079 U	0.77 U	0.8 U	0.073 U	0.079 U	0.086 U	0.08 U	0.73 U	0.084 U	0.072 U	0.077 U	0.086 U	0.076 U	0.83 U
2-Methylnaphthalene	mg/kg	3,000	**0.0054 J**	**0.0021 J**	0.0079 U	**0.026**	**0.39**	**0.012**	0.0079 U	0.0084 U	0.0079 U	**0.045 J**	0.0083 U	**0.054**	**0.0022 J**	**0.013**	**0.0022 J**	**0.079 J**
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.16 U	0.17 U	0.16 U	1.5 U	1.6 U	0.15 U	0.16 U	0.17 U	0.16 U	1.5 U	0.17 U	0.14 U	0.15 U	0.17 U	0.15 U	1.7 U
Acenaphthene	mg/kg	45,000	0.0083 U	0.0085 U	0.0079 U	**0.012**	**0.2**	**0.0042 J**	0.0079 U	0.0084 U	0.0079 U	0.074 U	0.0083 U	**0.0068 J**	0.0076 U	**0.0033 J**	0.0077 U	**0.011 J**
Acenaphthylene	mg/kg	45,000	0.0083 U	0.0085 U	0.0079 U	**0.01**	**0.4**	**0.092**	**0.018**	0.0084 U	0.0079 U	**0.023 J**	0.0083 U	**0.016**	0.0076 U	**0.0031 J**	0.0077 U	**0.024 J**
Acetophenone	mg/kg	120,000	0.081 U	0.085 U	0.079 U	0.77 U	0.8 U	0.073 U	0.079 U	0.086 U	0.08 U	0.73 U	0.084 U	0.072 U	0.077 U	0.086 U	0.076 U	0.83 U
Anthracene	mg/kg	230,000	**0.0013 J**	0.0085 U	0.0079 U	**0.02**	**0.43**	**0.029**	**0.0036 J**	0.0084 U	0.0079 U	**0.016 J**	0.0083 U	**0.025**	0.0012 B	**0.0041 J**	0.0077 U	**0.042 J**
Benz[a]anthracene	mg/kg	21	**0.0085**	0.0085 U	0.0079 U	**0.035**	**1.4**	**0.18**	**0.015**	**0.0016 J**	0.0079 U	**0.065 J**	0.0083 U	**0.049**	**0.0068 J**	**0.019**	**0.0016 J**	**0.18**
Benzaldehyde	mg/kg	120,000	0.081 U	0.085 U	0.079 U	0.77 U	0.8 U	0.073 U	0.079 U	0.086 U	0.08 U	0.73 U	0.084 U	0.072 U	0.077 U	0.086 U	0.076 U	0.83 R
Benzo[a]pyrene	mg/kg	2.1	**0.0084**	0.0085 U	0.0079 U	**0.031**	**1.3**	**0.23**	**0.026**	**0.00073 J**	0.0079 U	**0.073 J**	0.0083 U	**0.071 J**	**0.0049 J**	**0.03**	**0.00054 J**	**0.17**
Benzo[b]fluoranthene	mg/kg	21	**0.017**	0.0085 U	0.0079 U	**0.043**	**2.3**	**0.41**	**0.056**	0.0084 U	0.0079 U	**0.18**	0.0083 U	**0.17 J**	**0.007 J**	**0.045**	0.0077 U	**0.36**
Benzo[g,h,i]perylene	mg/kg		**0.0055 J**	0.0085 U	0.0079 U	**0.019**	**0.41**	**0.12**	**0.02**	0.0084 U	0.0079 U	**0.073 J**	0.0083 U	**0.016 J**	**0.0032 J**	**0.015**	0.0077 U	**0.12**
Benzo[k]fluoranthene	mg/kg	210	**0.015**	0.0085 U	0.0079 U	**0.014**	**0.65**	**0.15**	**0.015**	0.0084 U	0.0079 U	**0.16**	0.0083 U	**0.15 J**	**0.0035 J**	**0.017**	0.0077 U	**0.33**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.081 U	0.085 U	0.079 U	0.77 U	0.8 U	**0.048 J**	0.079 U	0.086 U	0.08 U	0.73 U	0.084 U	**0.018 J**	0.077 U	0.086 U	0.076 U	0.83 U
Caprolactam	mg/kg	400,000	0.2 U	0.21 U	0.2 U	**0.39 J**	**1.6 J**	0.18 U	0.2 U	0.21 U	0.2 U	1.8 U	0.21 U	0.18 U	0.19 U	0.22 U	0.19 U	2.1 U
Carbazole	mg/kg		0.081 U	0.085 U	0.079 U	0.77 U	0.8 U	0.073 U	0.079 U	0.086 U	0.08 U	0.73 U	0.084 U	0.072 U	0.077 U	0.086 U	0.076 U	0.83 U
Chrysene	mg/kg	2,100	**0.0096**	0.0085 U	0.0079 U	**0.039**	**1.2**	**0.19**	**0.022**	**0.00079 J**	0.0079 U	**0.09**	0.0083 U	**0.062**	**0.006 J**	**0.023**	**0.00052 J**	**0.19**
Dibenz[a,h]anthracene	mg/kg	2.1	0.0083 U	0.0085 U	0.0079 U	**0.0069 J**	**0.18**	**0.049**	**0.0067 J**	0.0084 U	0.0079 U	**0.022 J**	0.0083 U	**0.0088 J**	0.0076 UJ	**0.0052 J**	0.0077 U	**0.039 J**
Di-n-butylphthalate	mg/kg	82,000	0.081 U	0.085 U	0.079 U	0.77 U	0.8 U	0.073 U	0.079 U	0.086 U	**0.024 J**	0.73 U	0.084 U	0.072 U	0.077 U	0.086 U	0.076 U	0.83 U
Di-n-ocytlphthalate	mg/kg	8,200	0.081 U	0.085 U	0.079 U	0.77 U	0.8 UJ	0.073 U	0.079 U	0.064 B	0.059 B	**0.22 J**	0.084 U	0.068 B	0.057 B	0.086 U	0.076 U	0.83 U
Fluoranthene	mg/kg	30,000	**0.014**	0.0085 U	0.0079 U	**0.13**	**2.6**	**0.18**	**0.022**	0.0015 B	0.0079 U	**0.11**	**0.00084 J**	**0.062**	**0.009**	**0.023**	**0.0013 J**	**0.31**
Fluorene	mg/kg	30,000	0.0083 U	0.0085 U	0.0079 U	**0.007 J**	**0.19**	**0.0056 J**	0.0079 U	0.0084 U	0.0079 U	0.074 U	0.0083 U	**0.0035 J**	0.0076 U	**0.0016 J**	0.0077 U	**0.013 J**
Hexachloroethane	mg/kg	8	0.081 U	0.085 U	0.079 U	0.77 U	0.8 U	0.073 U	0.079 U	0.086 U	0.08 U	0.73 U	0.084 U	0.072 U	0.077 U	0.086 U	0.076 U	0.83 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	**0.0051 J**	0.0085 U	0.0079 U	**0.018**	**0.49**	**0.13**	**0.021**	0.0084 U	0.0079 U	**0.035 J**	0.0083 U	**0.018 J**	**0.0029 J**	**0.015**	0.0077 U	**0.1**
Naphthalene	mg/kg	8.6	**0.0056 J**	0.0085 UJ	**0.027 J**	**0.014 J**	**0.13 J**	**0.021**	**0.0029 J**	0.0084 U	0.0079 U	**0.045 J**	**0.0028 J**	**0.034**	**0.0041 J**	**0.015**	**0.0035 J**	**0.086**
N-Nitroso-di-n-propylamine	mg/kg	0.33	0.081 U	0.085 U	0.079 U	0.77 U	0.8 U	0.073 U	0.079 U	0.086 U	0.08 U	0.73 U	0.084 U	0.072 U	0.077 U	0.086 U	0.076 U	0.83 U
N-Nitrosodiphenylamine	mg/kg	470	0.081 U	0.085 U	0.079 U	0.77 U	0.8 U	0.073 U	0.079 U	0.086 U	0.08 U	0.73 U	0.084 U	0.072 U	0.077 U	0.086 U	0.076 U	0.83 U
Phenanthrene	mg/kg		**0.0091**	**0.00098 J**	**0.0015 J**	**0.074**	**1.1**	**0.06**	**0.0054 J**	**0.0011 J**	0.0079 U	**0.075**	**0.0016 J**	**0.12**	**0.0059 J**	**0.02**	**0.0018 J**	**0.18**
Phenol	mg/kg	250,000	0.081 U	0.085 U	0.079 U	0.77 U	0.8 U	0.073 U	0.079 U	0.086 U	0.08 U	0.73 U	0.084 U	0.072 U	0.077 U	0.086 U	0.076 U	0.83 U
Pyrene	mg/kg	23,000	**0.013**	0.0085 U	0.0079 U	**0.15**	**1.6**	**0.15**	**0.018**	**0.0014 J**	0.0079 U	**0.086**	0.0083 U	**0.057**	**0.0079**	**0.021**	**0.0011 J**	**0.29**
PCBs																		
Aroclor 1248	mg/kg	0.94	0.021 UJ	N/A	N/A	0.02 U	N/A	0.19 U	N/A	0.021 UJ	N/A	0.19 U	N/A	0.089 UJ	N/A	0.022 U	N/A	0.02 U
Aroclor 1254	mg/kg	0.97	0.021 U	N/A	N/A	0.02 U	N/A	0.19 U	N/A	0.021 UJ	N/A	0.19 U	N/A	0.089 UJ	N/A	0.022 U	N/A	0.02 U
Aroclor 1260	mg/kg	0.99	0.021 U	N/A	N/A	0.0098 U	N/A	0.19 U	N/A	0.021 U	N/A	0.19 U	N/A	0.089 U	N/A	0.022 U	N/A	0.02 U
Aroclor 1268	mg/kg		0.021 UJ	N/A	N/A	0.02 U	N/A	0.19 U	N/A	0.021 U	N/A	0.19 U	N/A	0.089 U	N/A	0.022 U	N/A	0.02 U
PCBs (total)	mg/kg	0.97	0.19 U	N/A	N/A	0.18 U	N/A	1.7 U	N/A	0.19 U	N/A	1.7 U	N/A	0.8 U	N/A	0.19 U	N/A	0.18 U
TPH/Oil & Grease																		
Diesel Range Organics	mg/kg	6,200	**12.5 J**	**11.1 J**	**5.7 J**	**319 J**	**302 J**	**60.4**	**20.2**	**19.4 J**	7.9 UJ	**150**	**11.5**	**59.5 J**	**11.1 J**	**29.3**	**15.2**	**62.8 J**
Gasoline Range Organics	mg/kg	6,200	15.7 U	11.9 U	10.8 U	10.7 U	5.2 B	14 U	11.2 U	11.3 U	9.7 U	12.6 U	9.6 U	22.9 U	9.8 U	16.9 U	12.8 U	13.8 U
Oil & Grease	mg/kg	6,200	**519**	**515**	**373**	**840 J+**	**1,490 J+**	**3,120**	**575**	**585 J-**	**705 J-**	**14,700**	**367**	**1,020 J-**	**475 J-**	**460**	**478**	**549**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A indicates that the parameter was not analyzed for this sample
*indicates non-validated data
^PAH compounds were analyzed via SIM

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.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 5 - Parcel B7 & Parcel B25
Summary of Organics Detected in Soil

Parameter	Units	PAL	B7-051-SB-5 3/7/2019	B7-052-SB-1 3/7/2019	B7-052-SB-4 3/7/2019	B7-053-SB-1 12/7/2020	B7-053-SB-2 12/7/2020	B7-053-SB-5 12/7/2020	B7-054-SB-1 12/7/2020	B7-054-SB-2 12/7/2020	B7-054-SB-5 12/7/2020	B7-055-SB-1* 12/8/2020	B7-055-SB-2* 12/8/2020	B7-055-SB-5* 12/8/2020	B7-056-SB-1 12/7/2020	B7-056-SB-2 12/7/2020	B7-056-SB-5 12/7/2020	B7-057-SB-1* 12/10/2020
Volatile Organic Compounds																		
1,2-Dichlorobenzene	mg/kg	9,300	N/A	N/A	**0.00089 J**	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
2-Butanone (MEK)	mg/kg	190,000	N/A	N/A	**0.0023 J**	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
Acetone	mg/kg	670,000	N/A	N/A	**0.025**	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
Benzene	mg/kg	5.1	N/A	N/A	0.005 U	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
Carbon disulfide	mg/kg	3,500	N/A	N/A	0.005 U	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
Cyclohexane	mg/kg	27,000	N/A	N/A	0.01 U	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
Ethylbenzene	mg/kg	25	N/A	N/A	**0.0013 J**	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
Methyl tert-butyl ether (MTBE)	mg/kg	210	N/A	N/A	**0.003 J**	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
Toluene	mg/kg	47,000	N/A	N/A	**0.0012 J**	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
Xylenes	mg/kg	2,800	N/A	N/A	**0.011 J**	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
Semi-Volatile Organic Compounds^																		
1,1-Biphenyl	mg/kg	200	0.84 U	0.69 U	0.74 U	0.071 U	0.077 U	0.081 U	0.071 U	0.079 U	0.08 U	0.081 U	0.08 U	0.084 U	0.078 U	1.5 U	0.074 U	0.077 U
2,4-Dinitrophenol	mg/kg	1,600	2.1 U	1.7 U	1.9 U	0.18 U	0.19 U	0.2 U	0.18 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.2 U	3.8 U	0.19 U	0.19 U
2,4-Dinitrotoluene	mg/kg	7.4	0.84 U	0.69 U	0.74 U	0.071 U	0.077 U	0.081 U	0.071 U	0.079 U	0.08 U	0.081 U	0.08 U	0.084 U	0.078 U	1.5 U	0.074 U	0.077 U
2-Methylnaphthalene	mg/kg	3,000	**0.037 J**	**0.084**	**0.38**	**0.0069 J**	**0.0021 J**	0.0081 U	**0.0016 J**	**0.0029 J**	**0.012**	**0.0023 J**	**0.0018 J**	0.0085 U	**0.024**	**0.0078**	0.0075 U	**0.057**
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	1.7 U	1.4 U	1.5 U	0.14 U	0.15 U	0.16 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.17 U	0.16 U	3 U	0.15 U	0.15 U
Acenaphthene	mg/kg	45,000	**0.017 J**	**0.047 J**	**0.13**	**0.007 J**	0.0077 U	0.0081 U	**0.0017 J**	**0.002 J**	**0.0012 J**	0.0083 U	0.0081 U	0.0085 U	**0.0087**	**0.0011 J**	0.0075 U	**0.069**
Acenaphthylene	mg/kg	45,000	**0.013 J**	**0.02 J**	**0.028 J**	**0.0076**	**0.002 J**	0.0081 U	**0.047**	**0.0025 J**	**0.0028 J**	**0.0027 J**	**0.0079 J**	0.0085 U	**0.31**	**0.023**	**0.0021 J**	**0.2**
Acetophenone	mg/kg	120,000	0.84 U	0.69 U	0.74 U	0.071 U	0.077 U	0.081 U	0.071 U	0.079 U	0.08 U	0.081 U	0.08 U	0.084 U	0.078 U	1.5 U	0.074 U	0.077 U
Anthracene	mg/kg	230,000	**0.033 J**	**0.082**	**0.13**	**0.011**	**0.0032 J**	0.0081 U	**0.027**	**0.0046 J**	**0.0031 J**	**0.0016 J**	**0.0021 J**	0.0085 U	**0.098**	**0.011**	**0.002 J**	**0.38**
Benz[a]anthracene	mg/kg	21	**0.1**	**0.17**	**0.15**	**0.038**	**0.013**	0.0081 U	**0.073**	**0.018**	**0.011**	**0.01**	**0.0096**	0.0085 U	**0.3**	**0.037**	**0.016**	**0.95**
Benzaldehyde	mg/kg	120,000	0.84 R	0.69 R	0.74 R	0.071 U	0.077 U	0.081 U	0.071 U	0.079 U	0.08 U	0.081 U	0.08 U	0.084 U	0.078 U	1.5 U	0.074 U	0.077 U
Benzo[a]pyrene	mg/kg	2.1	**0.097**	**0.17**	**0.13**	**0.045**	**0.013**	0.0081 U	**0.088**	**0.018**	**0.012**	**0.013**	**0.02**	0.0085 U	**0.68**	**0.059**	**0.018**	**0.81**
Benzo[b]fluoranthene	mg/kg	21	**0.15**	**0.25**	**0.2**	**0.081**	**0.026**	0.0081 U	**0.24**	**0.032**	**0.023**	**0.021**	**0.032**	0.0085 U	**1.3**	**0.11**	**0.029**	**1.5**
Benzo[g,h,i]perylene	mg/kg		**0.061 J**	**0.078**	**0.053 J**	**0.034**	**0.0092**	0.0081 U	**0.17**	**0.011**	**0.0086**	**0.0096**	**0.026**	0.0085 U	**0.22**	**0.041**	**0.01**	**0.35**
Benzo[k]fluoranthene	mg/kg	210	**0.045 J**	**0.1**	**0.074 J**	**0.08**	**0.026**	0.0081 U	**0.23 J**	**0.032**	**0.023**	**0.021**	**0.032**	0.0085 U	**1.3**	**0.11**	**0.029**	**1.3**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.84 U	0.69 U	0.74 U	0.035 B	0.041 B	0.037 B	0.028 B	0.041 B	0.038 B	0.081 U	0.08 U	0.084 U	0.032 B	1.5 U	0.036 B	0.077 U
Caprolactam	mg/kg	400,000	2.1 U	1.7 U	**0.55 J**	0.18 U	0.19 U	0.2 U	0.18 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.2 U	3.8 U	0.19 U	0.19 U
Carbazole	mg/kg		0.84 U	0.69 U	0.74 U	0.071 U	0.077 U	0.081 U	0.071 U	0.079 U	0.08 U	0.081 U	0.08 U	0.084 U	0.078 U	1.5 U	0.074 U	**0.043 J**
Chrysene	mg/kg	2,100	**0.11**	**0.17**	**0.16**	**0.041**	**0.013**	0.0081 U	**0.11**	**0.019**	**0.013**	**0.011**	**0.011**	0.0085 U	**0.33**	**0.042**	**0.015**	**0.88**
Dibenz[a,h]anthracene	mg/kg	2.1	**0.02 J**	**0.024 J**	**0.018 J**	**0.0089**	**0.0034 J**	0.0081 U	**0.041**	**0.0041 J**	**0.003 J**	**0.0035 J**	**0.0074 J**	0.0085 U	**0.1**	**0.014**	**0.0031 J**	**0.13**
Di-n-butylphthalate	mg/kg	82,000	0.84 U	0.69 U	0.74 U	0.045 B	0.06 B	0.051 B	0.037 B	0.046 B	0.048 B	**0.042 J**	**0.053 J**	**0.034 J**	0.04 B	1.5 U	0.042 B	**0.043 J**
Di-n-ocytlphthalate	mg/kg	8,200	0.84 U	0.69 UJ	0.74 U	0.071 U	0.077 U	0.081 U	0.071 U	0.079 U	0.08 U	0.081 U	0.08 U	0.084 U	0.078 UJ	1.5 U	0.074 U	0.077 U
Fluoranthene	mg/kg	30,000	**0.19**	**0.36**	**0.4**	**0.066**	**0.02**	0.0081 U	**0.1**	**0.036**	**0.02**	**0.013**	**0.011**	0.0085 U	**0.48**	**0.086**	**0.025**	**2.1**
Fluorene	mg/kg	30,000	**0.0096 J**	**0.058 J**	**0.14**	**0.0061 J**	**0.0013 J**	0.0081 U	**0.0025 J**	**0.0021 J**	**0.0028 J**	0.0083 U	0.0081 U	0.0085 U	**0.023**	**0.0038 J**	0.0075 U	**0.097**
Hexachloroethane	mg/kg	8	0.84 U	0.69 U	0.74 U	0.071 U	0.077 U	0.081 U	0.071 U	0.079 U	0.08 U	0.081 U	0.08 U	0.084 U	0.078 U	1.5 U	0.074 U	0.077 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	**0.053 J**	**0.066 J**	**0.046 J**	**0.031**	**0.0084**	0.0081 U	**0.14**	**0.011**	**0.0079 J**	**0.0084**	**0.022**	0.0085 U	**0.26**	**0.04**	**0.0096**	**0.36**
Naphthalene	mg/kg	8.6	**0.038 J**	**0.089**	**0.12**	**0.011**	**0.0035 J**	0.0081 U	**0.007 J**	**0.0048 J**	**0.0068 J**	**0.0027 J**	**0.0044 J**	0.0085 U	**0.057**	**0.016**	**0.0029 J**	**0.16**
N-Nitroso-di-n-propylamine	mg/kg	0.33	0.84 U	0.69 U	0.74 U	0.071 U	0.077 U	0.081 U	0.071 U	0.079 U	0.08 U	0.081 U	0.08 U	0.084 U	0.078 U	1.5 U	0.074 U	0.077 U
N-Nitrosodiphenylamine	mg/kg	470	0.84 U	0.69 U	0.74 U	0.071 U	0.077 U	0.081 U	0.071 U	0.079 U	0.08 U	0.081 U	0.08 U	0.084 U	0.078 U	1.5 U	0.074 U	0.077 U
Phenanthrene	mg/kg		**0.068 J**	**0.26**	**0.64**	**0.029**	**0.0081**	0.0081 U	**0.021**	**0.022**	**0.0088**	**0.0062 J**	**0.005 J**	0.0085 U	**0.19**	**0.031**	**0.0064 J**	**1.1**
Phenol	mg/kg	250,000	0.84 U	0.69 U	0.74 U	0.071 U	0.077 U	0.081 U	0.071 U	0.079 U	0.08 U	0.081 U	0.08 U	0.084 U	0.078 U	1.5 U	0.074 U	0.077 U
Pyrene	mg/kg	23,000	**0.18**	**0.36**	**0.4**	**0.061**	**0.018**	0.0081 U	**0.13**	**0.033**	**0.019**	**0.013**	**0.0096**	0.0085 U	**0.44**	**0.075**	**0.024**	**1.7**
PCBs																		
Aroclor 1248	mg/kg	0.94	N/A	0.17 U	N/A	0.092 U	N/A	N/A	0.089 U	N/A	N/A	0.021 U	N/A	N/A	0.098 U	N/A	N/A	0.097 U
Aroclor 1254	mg/kg	0.97	N/A	0.17 U	N/A	0.092 U	N/A	N/A	0.089 U	N/A	N/A	0.021 U	N/A	N/A	0.098 U	N/A	N/A	0.097 U
Aroclor 1260	mg/kg	0.99	N/A	0.17 U	N/A	0.092 U	N/A	N/A	0.089 U	N/A	N/A	0.021 U	N/A	N/A	0.098 U	N/A	N/A	0.097 U
Aroclor 1268	mg/kg		N/A	0.17 U	N/A	0.092 U	N/A	N/A	0.089 U	N/A	N/A	0.021 U	N/A	N/A	0.098 U	N/A	N/A	0.097 U
PCBs (total)	mg/kg	0.97	N/A	1.6 U	N/A	0.092 U	N/A	N/A	0.089 U	N/A	N/A	0.021 U	N/A	N/A	0.098 U	N/A	N/A	0.097 U
TPH/Oil & Grease																		
Diesel Range Organics	mg/kg	6,200	**112 J**	**91.4 J**	**400 J**	**16.3**	**64.9**	16.4 U	**221**	**20.5**	**49.9**	**12.4 J**	16 U	16.5 U	**60.7**	**44.8**	13.2 B	**772**
Gasoline Range Organics	mg/kg	6,200	10.8 U	10.4 U	11.4 U	11.8 U	9.4 U	10.1 U	8.2 U	9.9 U	10.3 U	12.2 U	8.9 U	11.6 U	10 U	9.5 U	9 U	11.3 U
Oil & Grease	mg/kg	6,200	**1,030**	**4,720**	**1,440**	219 U	**314**	495 U	**189 J**	**224 J**	492 U	500 U	492 U	504 U	**226 J**	464 U	226 U	483 U

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A indicates that the parameter was not analyzed for this sample
*indicates non-validated data
^PAH compounds were analyzed via SIM

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.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 5 - Parcel B7 & Parcel B25
Summary of Organics Detected in Soil

Parameter	Units	PAL	B7-057-SB-2* 12/10/2020	B7-057-SB-5* 12/10/2020	B7-058-SB-1 12/7/2020	B7-058-SB-2 12/7/2020	B7-058-SB-5 12/7/2020	B7-059-SB-1 12/7/2020	B7-059-SB-2 12/7/2020	B7-059-SB-5 12/7/2020	B7-060-SB-1* 12/8/2020	B7-060-SB-2* 12/8/2020	B7-060-SB-5* 12/8/2020	B7-061-SB-1* 12/10/2020
Volatile Organic Compounds														
1,2-Dichlorobenzene	mg/kg	9,300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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
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
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
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
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
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
Methyl tert-butyl ether (MTBE)	mg/kg	210	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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
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
Semi-Volatile Organic Compounds^														
1,1-Biphenyl	mg/kg	200	0.087 U	0.079 U	0.078 U	0.08 U	0.078 U	0.079 U	0.092 U	0.08 U	0.85 U	0.84 U	0.076 U	0.079 U
2,4-Dinitrophenol	mg/kg	1,600	0.22 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.23 U	0.2 U	2.1 U	2.1 U	0.19 U	0.2 U
2,4-Dinitrotoluene	mg/kg	7.4	0.087 U	0.079 U	0.078 U	0.08 U	0.078 U	0.079 U	0.092 U	0.08 U	0.85 U	0.84 U	0.076 U	0.079 U
2-Methylnaphthalene	mg/kg	3,000	**0.038**	**0.019**	**0.0027 J**	0.0082 U	0.0078 U	0.008 U	**0.008 J**	0.008 U	**0.079**	**0.037**	**0.0016 J**	0.008 U
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.17 U	0.16 U	0.16 U	0.16 U	0.15 U	0.16 U	0.18 U	0.16 U	1.7 U	1.7 U	0.15 U	0.16 U
Acenaphthene	mg/kg	45,000	**0.011**	**0.0068 J**	**0.0016 J**	0.0082 U	0.0078 U	0.008 U	**0.0022 J**	0.008 U	**0.032**	**0.041**	0.0077 U	0.008 U
Acenaphthylene	mg/kg	45,000	**0.19**	**0.14**	**0.014**	0.0082 U	0.0078 U	**0.0011 J**	**0.0075 J**	0.008 U	**0.25**	**0.091**	**0.0011 J**	0.008 U
Acetophenone	mg/kg	120,000	0.087 U	0.079 U	0.078 U	0.08 U	0.078 U	0.079 U	0.092 U	0.08 U	0.85 U	0.84 U	0.076 U	0.079 U
Anthracene	mg/kg	230,000	**0.14**	**0.055**	**0.0068 J**	0.0082 U	0.0078 U	**0.00078 J**	**0.017**	0.008 U	**0.17**	**0.14**	**0.0011 J**	**0.00084 J**
Benz[a]anthracene	mg/kg	21	**0.66**	**0.29**	**0.048**	0.0082 U	0.0078 U	**0.0033 J**	**0.038**	0.008 U	**0.78**	**0.48**	**0.008**	**0.0049 J**
Benzaldehyde	mg/kg	120,000	0.087 U	0.079 U	0.078 U	0.08 U	0.078 U	0.079 U	0.092 U	0.08 U	0.85 U	0.84 U	0.076 U	0.079 U
Benzo[a]pyrene	mg/kg	2.1	**0.8**	**0.44**	**0.05**	0.0082 U	0.0078 U	**0.0032 J**	**0.037**	0.008 U	**0.91**	**0.5**	**0.0083**	**0.0043 J**
Benzo[b]fluoranthene	mg/kg	21	**1.5**	**0.77**	**0.096**	0.0082 U	0.0078 U	**0.0057 J**	**0.062**	0.008 U	**1.5**	**0.79**	**0.013**	**0.0051 J**
Benzo[g,h,i]perylene	mg/kg		**0.37**	**0.25**	**0.024**	0.0082 U	0.0078 U	**0.002 J**	**0.016**	0.008 U	**0.58**	**0.26**	**0.0062 J**	**0.0026 J**
Benzo[k]fluoranthene	mg/kg	210	**1.3**	**0.7**	**0.095**	0.0082 U	0.0078 U	**0.0057 J**	**0.062**	0.008 U	**1.5**	**0.79**	**0.013**	**0.0022 J**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.087 U	0.079 U	0.042 B	0.032 B	0.023 B	0.035 B	0.044 B	0.033 B	0.85 U	0.84 U	0.076 U	0.079 U
Caprolactam	mg/kg	400,000	0.22 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.23 U	0.2 U	2.1 U	2.1 U	0.19 U	0.2 U
Carbazole	mg/kg		**0.036 J**	0.079 U	0.078 U	0.08 U	0.078 U	0.079 U	0.092 U	0.08 U	0.85 U	**0.2 J**	0.076 U	0.079 U
Chrysene	mg/kg	2,100	**0.67**	**0.32**	**0.061**	0.0082 U	0.0078 U	**0.003 J**	**0.038**	0.008 U	**0.77**	**0.46**	**0.008**	**0.0046 J**
Dibenz[a,h]anthracene	mg/kg	2.1	**0.14**	**0.085**	**0.0097**	0.0082 U	0.0078 U	0.008 U	**0.0072 J**	0.008 U	**0.22**	**0.1**	**0.0018 J**	0.008 U
Di-n-butylphthalate	mg/kg	82,000	**0.043 J**	**0.036 J**	0.049 B	0.036 B	0.03 B	0.042 B	0.055 B	0.04 B	0.85 U	0.84 U	**0.045 J**	**0.037 J**
Di-n-ocytlphthalate	mg/kg	8,200	0.087 U	0.079 U	0.078 UJ	0.08 U	0.078 U	0.079 U	0.092 U	0.08 U	0.85 U	0.84 U	0.076 U	0.079 U
Fluoranthene	mg/kg	30,000	**0.99**	**0.34**	**0.15**	0.0082 U	0.0078 U	**0.0043 J**	**0.072**	0.008 U	**1.3**	**0.9**	**0.013**	**0.007 J**
Fluorene	mg/kg	30,000	**0.021**	**0.011**	**0.0058 J**	0.0082 U	0.0078 U	0.008 U	**0.0027 J**	0.008 U	**0.038**	**0.049**	0.0077 U	0.008 U
Hexachloroethane	mg/kg	8	0.087 U	0.079 U	0.078 U	0.08 U	0.078 U	0.079 U	0.092 U	0.08 U	0.85 U	0.84 U	0.076 U	0.079 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	**0.38**	**0.25**	**0.024**	0.0082 U	0.0078 U	**0.002 J**	**0.018**	0.008 U	**0.62**	**0.28**	**0.0053 J**	**0.0021 J**
Naphthalene	mg/kg	8.6	**0.25**	**0.19**	**0.0045 J**	0.0082 U	0.0078 U	**0.0034 J**	**0.038**	0.008 U	**0.64**	**0.18**	**0.0021 J**	0.008 U
N-Nitroso-di-n-propylamine	mg/kg	0.33	0.087 U	0.079 U	0.078 U	0.08 U	0.078 U	0.079 U	0.092 U	0.08 U	0.85 U	0.84 U	0.076 U	0.079 U
N-Nitrosodiphenylamine	mg/kg	470	0.087 U	0.079 U	0.078 U	0.08 U	0.078 U	0.079 U	0.092 U	0.08 U	0.85 U	0.84 U	0.076 U	0.079 U
Phenanthrene	mg/kg		**0.32**	**0.1**	**0.11**	0.0082 U	0.0078 U	**0.0018 J**	**0.033**	**0.00072 J**	**0.54**	**0.49**	**0.0057 J**	**0.0039 J**
Phenol	mg/kg	250,000	0.087 U	0.079 U	0.078 U	0.08 U	0.078 U	0.079 U	0.092 U	0.08 U	0.85 U	0.84 U	0.076 U	0.079 U
Pyrene	mg/kg	23,000	**0.84**	**0.31**	**0.11**	0.0082 U	0.0078 U	**0.0037 J**	**0.056**	0.008 U	**0.95**	**0.71**	**0.012**	**0.0072 J**
PCBs														
Aroclor 1248	mg/kg	0.94	N/A	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A	0.11 U	N/A	N/A	0.021 U
Aroclor 1254	mg/kg	0.97	N/A	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A	0.11 U	N/A	N/A	0.021 U
Aroclor 1260	mg/kg	0.99	N/A	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A	0.11 U	N/A	N/A	0.021 U
Aroclor 1268	mg/kg		N/A	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A	0.11 U	N/A	N/A	0.021 U
PCBs (total)	mg/kg	0.97	N/A	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A	0.11 U	N/A	N/A	0.021 U
TPH/Oil & Grease														
Diesel Range Organics	mg/kg	6,200	**54.4**	**30.3**	**19**	12.2 B	10.4 B	**20.3**	**28.2**	10.4 B	**52.7**	**91.8**	**12.9 J**	**10.7 J**
Gasoline Range Organics	mg/kg	6,200	13.2 U	11.8 U	10.5 U	10.5 U	9.5 U	10.4 U	11.7 U	10.5 U	12 U	10.6 U	9.1 U	9.5 U
Oil & Grease	mg/kg	6,200	534 U	**243 J**	480 U	247 U	235 U	482 U	550 U	243 U	**233 J**	509 U	**140 J**	480 U

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A indicates that the parameter was not analyzed for this sample
*indicates non-validated data
^PAH compounds were analyzed via SIM

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.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 5 - Parcel B7 & Parcel B25
Summary of Organics Detected in Soil

Parameter	Units	PAL	B7-061-SB-2* 12/10/2020	B7-061-SB-4* 12/10/2020	B7-062-SB-1* 9/18/2019	B7-062-SB-5* 9/18/2019	B7-063-SB-1* 9/18/2019	B7-063-SB-8* 9/18/2019	B7-064-SB-1* 12/10/2020	B7-064-SB-2* 12/10/2020	B7-064-SB-5* 12/10/2020	B7-065-SB-1* 12/10/2020	B7-065-SB-2* 12/10/2020	B7-065-SB-5* 12/10/2020
Volatile Organic Compounds														
1,2-Dichlorobenzene	mg/kg	9,300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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
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
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
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
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
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
Methyl tert-butyl ether (MTBE)	mg/kg	210	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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
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
Semi-Volatile Organic Compounds^														
1,1-Biphenyl	mg/kg	200	0.08 U	0.079 U	1.5 U	0.076 U	1.5 U	1.6 U	0.078 U	0.077 U	0.078 U	0.08 U	0.083 U	0.078 U
2,4-Dinitrophenol	mg/kg	1,600	0.2 U	0.2 U	3.8 U	0.19 U	3.8 U	3.9 U	0.2 U	0.19 U	0.2 U	0.2 U	0.21 U	0.2 U
2,4-Dinitrotoluene	mg/kg	7.4	0.08 U	0.079 U	1.5 U	0.076 U	1.5 U	1.6 U	0.078 U	0.077 U	0.078 U	0.08 U	0.083 U	0.078 U
2-Methylnaphthalene	mg/kg	3,000	0.008 U	0.0079 U	**0.42**	0.0076 U	**0.089**	0.0078 U	0.0078 U	0.0078 U	0.0079 U	0.008 U	0.0084 U	**0.0022 J**
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.16 U	0.16 U	3 U	0.15 U	3 U	3.1 U	0.16 U	0.15 U	0.16 U	0.16 U	0.17 U	0.16 U
Acenaphthene	mg/kg	45,000	0.008 U	0.0079 U	**0.31**	0.0076 U	**0.075**	0.0078 U	**0.0015 J**	0.0078 U	0.0079 U	**0.00075 J**	0.0084 U	**0.0013 J**
Acenaphthylene	mg/kg	45,000	0.008 U	0.0079 U	**18.3**	0.0076 U	**5.3**	**0.0047 J**	**0.0022 J**	0.0078 U	0.0079 U	**0.0022 J**	0.0084 U	0.0079 U
Acetophenone	mg/kg	120,000	0.08 U	0.079 U	1.5 U	0.076 U	1.5 U	1.6 U	0.078 U	0.077 U	0.078 U	0.08 U	0.083 U	0.078 U
Anthracene	mg/kg	230,000	0.008 U	0.0079 U	**10.8**	0.0076 U	**1.8**	**0.0018 J**	**0.0027 J**	0.0078 U	0.0079 U	**0.0013 J**	0.0084 U	0.0079 U
Benz[a]anthracene	mg/kg	21	0.008 U	0.0079 U	**53.2**	**0.0041 J**	**9.5**	**0.0098**	**0.017**	0.0078 U	0.0079 U	**0.012**	0.0084 U	0.0079 U
Benzaldehyde	mg/kg	120,000	0.08 U	0.079 U	1.5 U	0.076 U	1.5 U	1.6 U	0.078 U	0.077 U	0.078 U	0.08 U	0.083 U	0.078 U
Benzo[a]pyrene	mg/kg	2.1	0.008 U	0.0079 U	**73**	**0.0027 J**	**14.3**	**0.012**	**0.019**	0.0078 U	0.0079 U	**0.014**	0.0084 U	0.0079 U
Benzo[b]fluoranthene	mg/kg	21	0.008 U	0.0079 U	**97.6**	**0.0042 J**	**28.4**	**0.025**	**0.031**	0.0078 U	0.0079 U	**0.023**	0.0084 U	0.0079 U
Benzo[g,h,i]perylene	mg/kg		0.008 U	0.0079 U	**39.2**	**0.0018 J**	**2.9**	**0.0067 J**	**0.011**	0.0078 U	0.0079 U	**0.0079 J**	0.0084 U	0.0079 U
Benzo[k]fluoranthene	mg/kg	210	0.008 U	0.0079 U	**39**	**0.0016 J**	**9.5**	**0.021**	**0.028**	0.0078 U	0.0079 U	**0.021**	0.0084 U	0.0079 U
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.08 U	0.079 U	**0.38 J**	**0.021 J**	1.5 U	1.6 U	0.078 U	0.077 U	0.078 U	0.08 U	0.083 U	0.078 U
Caprolactam	mg/kg	400,000	0.2 U	0.2 U	3.8 U	0.19 U	3.8 U	3.9 U	0.2 U	0.19 U	0.2 U	0.2 U	0.21 U	0.2 U
Carbazole	mg/kg		0.08 U	0.079 U	**1.3 J**	0.076 U	**0.41 J**	1.6 U	0.078 U	0.077 U	0.078 U	0.08 U	0.083 U	0.078 U
Chrysene	mg/kg	2,100	0.008 U	0.0079 U	**46.4**	**0.0031 J**	**10.4**	**0.011**	**0.019**	**0.00042 J**	0.0079 U	**0.014**	0.0084 U	0.0079 U
Dibenz[a,h]anthracene	mg/kg	2.1	0.008 U	0.0079 U	**8.4**	0.0076 U	**1.2**	**0.0023 J**	**0.0033 J**	0.0078 U	0.0079 U	**0.0026 J**	0.0084 U	0.0079 U
Di-n-butylphthalate	mg/kg	82,000	**0.036 J**	**0.032 J**	1.5 U	0.076 U	1.5 U	1.6 U	**0.037 J**	**0.042 J**	**0.048 J**	**0.04 J**	**0.046 J**	**0.039 J**
Di-n-ocytlphthalate	mg/kg	8,200	0.08 U	0.079 U	1.5 U	0.076 U	1.5 U	1.6 U	0.078 U	0.077 U	0.078 U	0.08 U	0.083 U	0.078 U
Fluoranthene	mg/kg	30,000	0.008 U	0.0079 U	**73**	**0.0042 J**	**10.9**	**0.015**	**0.034**	0.0078 U	0.0079 U	**0.023**	**0.00079 J**	**0.00072 J**
Fluorene	mg/kg	30,000	0.008 U	0.0079 U	**1.5**	0.0076 U	**0.25**	0.0078 U	0.0078 U	0.0078 U	0.0079 U	0.008 U	0.0084 U	0.0079 U
Hexachloroethane	mg/kg	8	0.08 U	0.079 U	1.5 U	0.076 U	1.5 U	1.6 U	0.078 U	0.077 U	0.078 U	0.08 U	0.083 U	0.078 U
Indeno[1,2,3-c,d]pyrene	mg/kg	21	0.008 U	0.0079 U	**47.4**	**0.0017 J**	**3.8**	**0.0062 J**	**0.0091**	0.0078 U	0.0079 U	**0.0073 J**	0.0084 U	0.0079 U
Naphthalene	mg/kg	8.6	0.008 U	0.0079 U	**1.4**	0.0076 U	**0.3**	0.0078 U	**0.0021 J**	0.0078 U	0.0079 U	0.008 U	0.0084 U	**0.0053 J**
N-Nitroso-di-n-propylamine	mg/kg	0.33	0.08 U	0.079 U	1.5 U	0.076 U	1.5 U	1.6 U	0.078 U	0.077 U	0.078 U	0.08 U	0.083 U	0.078 U
N-Nitrosodiphenylamine	mg/kg	470	0.08 U	0.079 U	1.5 U	0.076 U	1.5 U	1.6 U	0.078 U	0.077 U	0.078 U	0.08 U	0.083 U	0.078 U
Phenanthrene	mg/kg		0.008 U	0.0079 U	**23.5**	**0.0015 J**	**2.6**	**0.0032 J**	**0.018**	0.0078 U	0.0079 U	**0.0093**	0.0084 U	**0.0011 J**
Phenol	mg/kg	250,000	0.08 U	0.079 U	1.5 U	0.076 U	1.5 U	1.6 U	0.078 U	0.077 U	0.078 U	0.08 U	0.083 U	0.078 U
Pyrene	mg/kg	23,000	0.008 U	0.0079 U	**69**	**0.0035 J**	**7.8**	**0.011**	**0.031**	0.0078 U	0.0079 U	**0.02**	0.0084 U	0.0079 U
PCBs														
Aroclor 1248	mg/kg	0.94	N/A	N/A	0.38 U	N/A	0.38 U	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A
Aroclor 1254	mg/kg	0.97	N/A	N/A	0.38 U	N/A	0.38 U	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A
Aroclor 1260	mg/kg	0.99	N/A	N/A	0.38 U	N/A	0.38 U	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A
Aroclor 1268	mg/kg		N/A	N/A	0.38 U	N/A	0.38 U	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A
PCBs (total)	mg/kg	0.97	N/A	N/A	3.4 U	N/A	3.4 U	N/A	0.02 U	N/A	N/A	0.02 U	N/A	N/A
TPH/Oil & Grease														
Diesel Range Organics	mg/kg	6,200	16 U	**10 J**	**486**	**4.9 J**	**286**	**5.2 J**	15.3 U	15.4 U	15.4 U	15.6 U	16.9 U	15.4 U
Gasoline Range Organics	mg/kg	6,200	9.1 U	9.5 U	15.1 U	8.8 U	10.2 U	9.7 U	9.4 U	9.3 U	8.6 U	9.9 U	10.8 U	11.1 U
Oil & Grease	mg/kg	6,200	486 U	479 U	**3,010**	**116 J**	**4,360**	**82.8 J**	474 U	468 U	476 U	487 U	512 U	476 U

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A indicates that the parameter was not analyzed for this sample
*indicates non-validated data
^PAH compounds were analyzed via SIM

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.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 6 - Parcel B7 & Parcel B25
Summary of Pesticides Detected in Soil

Parameter	Units	PAL	B25-001-SB-1* 10/17/2018	B25-001-SB-2* 10/17/2018	B25-002-SB-1* 10/17/2018	B25-002-SB-2* 10/17/2018	B25-003-SB-1* 10/17/2018	B25-003-SB-2* 10/17/2018
Pesticides								
4,4'-DDD	mg/kg	9.6	0.0039 U	0.004 U	0.0039 U	0.004 U	0.004 U	0.004 U
4,4'-DDE	mg/kg	9.3	0.0039 U	0.004 U	0.0039 U	0.004 U	0.004 U	0.004 U
4,4'-DDT	mg/kg	8.5	0.0039 U	0.004 U	0.0039 U	0.004 U	0.004 U	0.004 U
Aldrin	mg/kg	0.18	0.0019 U	0.002 U	0.0019 U	0.002 U	0.002 U	0.002 U
alpha-BHC	mg/kg	0.36	**0.0014 J**	**0.0023**	0.0019 U	0.002 U	0.002 U	0.002 U
alpha-Chlordane^	mg/kg	7.7	0.0019 U	0.002 U	0.0019 U	0.002 U	**0.00044 J**	0.002 U
beta-BHC	mg/kg	1.30	0.0019 U	0.002 U	0.0019 U	0.002 U	0.002 U	0.002 U
Dieldrin	mg/kg	0.14	0.0039 U	0.004 U	0.0039 U	0.004 U	0.004 U	0.004 U
Endosulfan I[+]	mg/kg	7,000	0.0019 U	0.002 U	0.0019 U	0.002 U	0.002 U	0.002 U
Endosulfan II[+]	mg/kg	7,000	0.0039 U	0.004 U	0.0039 U	0.004 U	0.004 U	0.004 U
Endosulfan sulfate	mg/kg	4,900	0.0039 U	0.004 U	0.0039 U	0.004 U	0.004 U	0.004 U
Endrin	mg/kg	250	0.0039 U	0.004 U	0.0039 U	0.004 U	0.004 U	0.004 U
Endrin aldehyde	mg/kg		0.0039 U	0.004 U	0.0039 U	0.004 U	0.004 U	0.004 U
Endrine ketone	mg/kg		**0.00037 J**	0.004 U	0.0039 U	0.004 U	0.004 U	0.004 U
gamma-BHC (Lindane)	mg/kg	2.5	0.0019 U	**0.0055**	0.0019 U	0.002 U	0.002 U	0.002 U
gamma-Chlordane^	mg/kg	7.7	0.0019 U	0.002 U	0.0019 U	0.002 U	0.002 U	0.002 U
Heptachlor	mg/kg	0.63	0.0019 U	0.002 U	0.0019 U	0.002 U	0.002 U	0.002 U
Heptachlor epoxide	mg/kg	0.33	0.0019 U	0.002 U	0.0019 U	0.002 U	0.002 U	0.002 U
Methoxychlor	mg/kg	4,100	0.0193 U	0.0202 U	0.0193 U	0.0198 U	0.0199 U	0.02 U

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
*indicates non-validated data
^The USEPA RSL for Chlordane (technical mixture) was used as the PAL for both alpha- and gamma-Chlordane
[+]The USEPA RSL for Endosulfan was used as the PAL for both Endosulfan I and II

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.

Table 6 - Parcel B7 & Parcel B25
Summary of Pesticides Detected in Soil

Parameter	Units	PAL	B25-004-SB-1*	B25-004-SB-2*	B25-005-SB-1	B25-005-SB-2	B25-006-SB-1	B25-006-SB-2	B25-007-SB-1
			10/18/2018	10/18/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018
Pesticides									
4,4'-DDD	mg/kg	9.6	0.0041 U	0.004 U	0.0041 UJ	0.0038 UJ	0.0039 UJ	0.0041 UJ	0.0044 UJ
4,4'-DDE	mg/kg	9.3	0.0041 U	0.004 U	0.0041 U	0.0038 U	**0.0087 J**	0.0041 U	0.0044 U
4,4'-DDT	mg/kg	8.5	0.0041 U	0.004 U	**0.003 J**	0.0038 U	**0.0067 J**	0.0041 U	0.0044 U
Aldrin	mg/kg	0.18	0.002 U	0.002 U	0.0021 U	0.0019 U	0.002 U	0.002 U	0.0022 U
alpha-BHC	mg/kg	0.36	0.002 U	0.002 U	0.0016 U	0.0019 U	0.00085 U	0.002 U	0.0022 U
alpha-Chlordane^	mg/kg	7.7	0.002 U	0.002 U	**0.00095 J**	0.0019 U	**0.0024 J**	0.002 U	0.0014 U
beta-BHC	mg/kg	1.30	0.002 U	0.002 U	0.0021 U	0.0019 U	**0.0027**	0.002 U	**0.0052 J**
Dieldrin	mg/kg	0.14	0.0041 U	0.004 U	**0.0067 J**	0.0013 U	0.0039 U	0.0041 U	0.0013 U
Endosulfan I[+]	mg/kg	7,000	0.002 U	0.002 U	0.0021 U	0.0019 U	**0.00096 J**	0.002 U	0.0022 U
Endosulfan II[+]	mg/kg	7,000	0.0041 U	0.004 U	0.0019 U	0.0038 U	**0.0045 J**	**0.0057 J**	0.0044 U
Endosulfan sulfate	mg/kg	4,900	0.0041 U	0.004 U	0.0014 U	0.0026 U	**0.0053 J**	**0.008 J**	0.0044 U
Endrin	mg/kg	250	0.0041 U	0.004 U	**0.0095 J**	0.0038 UJ	**0.0062 J**	0.0041 UJ	0.0044 UJ
Endrin aldehyde	mg/kg		0.0041 U	0.004 U	**0.0014 J**	0.0038 U	**0.004**	0.0041 U	0.0044 U
Endrine ketone	mg/kg		**0.00047 J**	0.004 U	**0.008 J**	0.0013 U	0.0039 U	**0.0048**	0.0044 U
gamma-BHC (Lindane)	mg/kg	2.5	0.002 U	0.002 U	**0.0034 J**	0.0019 U	**0.0054**	**0.0009 J**	0.0022 U
gamma-Chlordane^	mg/kg	7.7	0.002 U	0.002 U	**0.0056 J**	0.0019 U	0.0019 U	0.002 U	0.0022 U
Heptachlor	mg/kg	0.63	0.002 U	0.002 U	0.0021 U	0.0019 U	**0.001 J**	0.002 U	0.0022 U
Heptachlor epoxide	mg/kg	0.33	0.002 U	0.002 U	0.0021 U	0.0019 U	0.002 U	0.002 U	0.0022 U
Methoxychlor	mg/kg	4,100	0.0203 U	0.0199 U	**0.0217 J**	0.0191 U	**0.0586 J**	0.0203 U	0.0222 U

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
*indicates non-validated data
^The USEPA RSL for Chlordane (technical mixture) was used as the PAL for both alpha- and gamma-Chlordane
[+]The USEPA RSL for Endosulfan was used as the PAL for both Endosulfan I and II

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.

Table 6 - Parcel B7 & Parcel B25
Summary of Pesticides Detected in Soil

Parameter	Units	PAL	B25-007-SB-2	B25-008-SB-1	B25-008-SB-2	B25-009-SB-1	B25-009-SB-2	B25-010-SB-1	B25-010-SB-2
			10/19/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018
Pesticides									
4,4'-DDD	mg/kg	9.6	0.0039 UJ	0.0039 UJ	0.0039 UJ	0.004 UJ	0.0039 UJ	0.0042 UJ	0.0039 UJ
4,4'-DDE	mg/kg	9.3	0.0039 U	0.0039 U	0.0039 U	0.004 U	0.0039 U	0.0042 U	0.0039 U
4,4'-DDT	mg/kg	8.5	0.0039 U	0.0039 U	0.0039 U	0.004 U	0.0039 U	0.0042 U	0.0039 U
Aldrin	mg/kg	0.18	0.002 U	0.002 U	0.0019 U	0.002 U	0.002 U	0.0021 U	0.002 U
alpha-BHC	mg/kg	0.36	0.002 U	0.002 U	0.0019 U	0.002 U	0.002 U	0.0021 U	0.002 U
alpha-Chlordane^	mg/kg	7.7	0.002 U	0.002 U	0.0019 U	0.002 U	0.002 U	**0.00048 J**	0.002 U
beta-BHC	mg/kg	1.30	0.002 U	0.002 U	0.0019 U	0.002 U	0.002 U	0.0021 U	0.002 U
Dieldrin	mg/kg	0.14	0.0039 U	0.0039 U	0.0039 U	0.004 U	0.0039 U	0.0024 U	0.0039 U
Endosulfan I[+]	mg/kg	7,000	0.002 U	0.002 U	0.0019 U	0.002 U	0.002 U	**0.00054 J**	0.002 U
Endosulfan II[+]	mg/kg	7,000	0.0039 U	0.0039 U	0.0039 U	**0.00071 J**	0.0039 U	0.0042 U	0.0039 U
Endosulfan sulfate	mg/kg	4,900	0.0012 U	**0.0016 J**	0.0039 U	0.004 U	0.0039 U	**0.00058 J**	0.0039 U
Endrin	mg/kg	250	0.0039 UJ	0.0039 UJ	0.0039 UJ	0.0028 U	0.0039 UJ	0.0042 UJ	0.0039 UJ
Endrin aldehyde	mg/kg		0.0039 U	0.0039 U	0.0039 U	0.004 U	0.0039 U	0.0042 U	0.0039 U
Endrine ketone	mg/kg		0.0039 U	0.0039 U	0.0039 U	0.0004 U	0.0039 U	0.0035 U	0.0031 U
gamma-BHC (Lindane)	mg/kg	2.5	0.002 U	0.002 U	0.0019 U	0.002 U	0.002 U	0.0021 U	0.002 U
gamma-Chlordane^	mg/kg	7.7	0.002 U	0.002 U	0.0019 U	**0.0022 J**	0.002 U	0.0021 U	0.002 U
Heptachlor	mg/kg	0.63	0.002 U	0.002 U	0.0019 U	0.0016 U	0.002 U	0.0021 U	0.002 U
Heptachlor epoxide	mg/kg	0.33	0.002 U	0.002 U	0.0019 U	0.002 U	0.002 U	0.0021 U	0.002 U
Methoxychlor	mg/kg	4,100	0.0196 U	0.0195 U	0.0193 U	**0.0021 J**	0.0196 U	**0.0069 J**	0.0197 U

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

*indicates non-validated data

^The USEPA RSL for Chlordane (technical mixture) was used as the PAL for both alpha- and gamma-Chlordane

[+]The USEPA RSL for Endosulfan was used as the PAL for both Endosulfan I and II

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.

Table 6 - Parcel B7 & Parcel B25
Summary of Pesticides Detected in Soil

Parameter	Units	PAL	B25-011-SB-1* 10/18/2018	B25-011-SB-2* 10/18/2018	B25-012-SB-1* 10/22/2018	B25-012-SB-2* 10/22/2018	B25-013-SB-1* 10/17/2018	B25-013-SB-2* 10/17/2018
Pesticides								
4,4'-DDD	mg/kg	9.6	0.0363 U	0.0038 U	0.0041 U	0.0039 U	0.004 U	0.0039 U
4,4'-DDE	mg/kg	9.3	0.0363 U	0.0038 U	0.0041 U	0.0039 U	0.004 U	0.0039 U
4,4'-DDT	mg/kg	8.5	0.0363 U	**0.0028 J**	0.0041 U	0.0039 U	0.004 U	0.0039 U
Aldrin	mg/kg	0.18	0.0181 U	0.0019 U	0.002 U	0.0019 U	0.002 U	0.002 U
alpha-BHC	mg/kg	0.36	0.0181 U	0.0019 U	0.002 U	0.0019 U	**0.0028**	0.002 U
alpha-Chlordane^	mg/kg	7.7	0.0181 U	0.0019 U	0.002 U	0.0019 U	**0.00037 J**	0.002 U
beta-BHC	mg/kg	1.30	0.0181 U	0.0019 U	0.002 U	0.0019 U	0.002 U	0.002 U
Dieldrin	mg/kg	0.14	0.0363 U	0.0038 U	0.0041 U	0.0039 U	**0.0008 J**	0.0039 U
Endosulfan I[+]	mg/kg	7,000	0.0181 U	0.0019 U	0.002 U	0.0019 U	0.002 U	0.002 U
Endosulfan II[+]	mg/kg	7,000	0.0363 U	0.0038 U	0.0041 U	0.0039 U	0.004 U	0.0039 U
Endosulfan sulfate	mg/kg	4,900	0.0363 U	0.0038 U	0.0041 U	0.0039 U	0.004 U	0.0039 U
Endrin	mg/kg	250	**0.0138 J**	**0.0011 J**	0.0041 U	0.0039 U	0.004 U	0.0039 U
Endrin aldehyde	mg/kg		0.0363 U	0.0038 U	0.0041 U	0.0039 U	0.004 U	0.0039 U
Endrine ketone	mg/kg		**0.0078 J**	0.0038 U	**0.0017 J**	0.0039 U	**0.0016 J**	0.0039 U
gamma-BHC (Lindane)	mg/kg	2.5	0.0181 U	0.0019 U	0.002 U	0.0019 U	0.002 U	0.002 U
gamma-Chlordane^	mg/kg	7.7	0.0181 U	0.0019 U	0.002 U	0.0019 U	0.002 U	0.002 U
Heptachlor	mg/kg	0.63	0.0181 U	0.0019 U	0.002 U	0.0019 U	0.002 U	0.002 U
Heptachlor epoxide	mg/kg	0.33	0.0181 U	0.0019 U	0.002 U	0.0019 U	0.002 U	0.002 U
Methoxychlor	mg/kg	4,100	0.181 U	0.0191 U	0.0205 U	0.0194 U	0.0199 U	0.0196 U

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
*indicates non-validated data
^The USEPA RSL for Chlordane (technical mixture) was used as the PAL for both alpha- and gamma-Chlordane
[+]The USEPA RSL for Endosulfan was used as the PAL for both Endosulfan I and II

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.

Table 6 - Parcel B7 & Parcel B25
Summary of Pesticides Detected in Soil

Parameter	Units	PAL	B25-014-SB-1*	B25-014-SB-2*	B7-001-SB-1*	B7-001-SB-2*	B7-002-SB-1*	B7-002-SB-2*	B7-003-SB-1*
			10/22/2018	10/22/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018
Pesticides									
4,4'-DDD	mg/kg	9.6	0.0037 U	0.0354 U	0.0036 U	0.0037 U	0.0035 U	0.0037 U	0.0037 U
4,4'-DDE	mg/kg	9.3	0.0037 U	0.0354 U	**0.0022 J**	**0.0029 J**	0.0035 U	0.0037 U	**0.0022 J**
4,4'-DDT	mg/kg	8.5	**0.0071**	0.0354 U	**0.0038**	**0.0413**	**0.0031 J**	0.0037 U	**0.0096**
Aldrin	mg/kg	0.18	0.0018 U	0.0177 U	0.0018 U	**0.0015 J**	0.0018 U	0.0018 U	0.0018 U
alpha-BHC	mg/kg	0.36	0.0018 U	0.0177 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U
alpha-Chlordane^	mg/kg	7.7	**0.0025**	0.0177 U	0.0018 U	**0.00077 J**	0.0018 U	0.0018 U	**0.00051 J**
beta-BHC	mg/kg	1.30	0.0018 U	0.0177 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U
Dieldrin	mg/kg	0.14	**0.006**	0.0354 U	**0.0027 J**	**0.0155**	**0.0025 J**	0.0037 U	**0.0068**
Endosulfan I[+]	mg/kg	7,000	**0.002**	0.0177 U	**0.00065 J**	**0.0019**	0.0018 U	0.0018 U	**0.0014 J**
Endosulfan II[+]	mg/kg	7,000	**0.0013 J**	0.0354 U	**0.0015 J**	**0.0106**	**0.001 J**	0.0037 U	**0.0027 J**
Endosulfan sulfate	mg/kg	4,900	**0.0029 J**	0.0354 U	**0.0016 J**	**0.011**	0.0035 U	0.0037 U	**0.0016 J**
Endrin	mg/kg	250	**0.00098 J**	0.0354 U	0.0036 U	**0.03**	**0.0032 J**	0.0037 U	**0.0056**
Endrin aldehyde	mg/kg		**0.0022 J**	0.0354 U	**0.0021 J**	0.0037 U	**0.0021 J**	0.0037 U	**0.0021 J**
Endrine ketone	mg/kg		0.0037 U	0.0354 U	**0.0056**	**0.0263**	**0.0066**	0.0037 U	0.0037 U
gamma-BHC (Lindane)	mg/kg	2.5	0.0018 U	0.0177 U	0.0018 U	**0.0021**	**0.00082 J**	0.0018 U	**0.0018 J**
gamma-Chlordane^	mg/kg	7.7	**0.0032**	0.0177 U	0.0018 U	**0.0095**	0.0018 U	0.0018 U	**0.0039**
Heptachlor	mg/kg	0.63	0.0018 U	0.0177 U	0.0018 U	**0.0012 J**	**0.0005 J**	0.0018 U	**0.00092 J**
Heptachlor epoxide	mg/kg	0.33	0.0018 U	0.0177 U	0.0018 U	**0.0075**	0.0018 U	0.0018 U	0.0018 U
Methoxychlor	mg/kg	4,100	**0.0072 J**	0.177 U	**0.0064 J**	**0.0079 J**	**0.0042 J**	0.0184 U	**0.0031 J**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
*indicates non-validated data
^The USEPA RSL for Chlordane (technical mixture) was used as the PAL for both alpha- and gamma-Chlordane
[+]The USEPA RSL for Endosulfan was used as the PAL for both Endosulfan I and II

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.

Table 6 - Parcel B7 & Parcel B25
Summary of Pesticides Detected in Soil

Parameter	Units	PAL	B7-003-SB-2*	B7-007-SB-1	B7-008-SB-1*	B7-014-SB-1*	B7-014-SB-2*	B7-015-SB-1*	B7-015-SB-2*
			10/2/2018	3/7/2019	3/8/2019	10/1/2018	10/1/2018	10/1/2018	10/1/2018
Pesticides									
4,4'-DDD	mg/kg	9.6	0.0037 U	0.0034 U	0.019 U	0.0038 U	0.0036 U	0.0036 U	0.0037 U
4,4'-DDE	mg/kg	9.3	**0.0038**	0.0034 U	0.019 U	0.0038 U	0.0036 U	0.0036 U	0.0037 U
4,4'-DDT	mg/kg	8.5	**0.0054**	0.0034 UJ	0.019 U	**0.0088**	0.0036 U	0.0036 U	0.0037 U
Aldrin	mg/kg	0.18	0.0019 U	0.0017 U	0.0095 U	0.0019 U	0.0018 U	0.0018 U	0.0018 U
alpha-BHC	mg/kg	0.36	0.0019 U	0.0017 U	0.0095 U	0.0019 U	0.0018 U	0.0018 U	0.0018 U
alpha-Chlordane^	mg/kg	7.7	**0.0011 J**	0.0017 U	0.0095 U	0.0019 U	0.0018 U	0.0018 U	0.0018 U
beta-BHC	mg/kg	1.30	0.0019 U	0.0017 UJ	0.0095 U	0.0019 U	0.0018 U	0.0018 U	0.0018 U
Dieldrin	mg/kg	0.14	**0.0043**	0.0034 U	0.019 U	**0.0045**	0.0036 U	**0.00074 J**	0.0037 U
Endosulfan I[+]	mg/kg	7,000	0.0019 U	0.0017 U	0.0095 U	0.0019 U	0.0018 U	0.0018 U	0.0018 U
Endosulfan II[+]	mg/kg	7,000	**0.0014 J**	0.0034 U	0.019 U	**0.0018 J**	0.0036 U	0.0036 U	0.0037 U
Endosulfan sulfate	mg/kg	4,900	**0.0013 J**	0.0034 UJ	0.019 U	0.0038 U	0.0036 U	0.0036 U	0.0037 U
Endrin	mg/kg	250	**0.0038**	0.0034 U	0.019 U	**0.0035 J**	0.0036 U	0.0036 U	0.0037 U
Endrin aldehyde	mg/kg		0.0037 U	0.0034 UJ	0.019 U	0.0038 U	0.0036 U	0.0036 U	0.0037 U
Endrine ketone	mg/kg		**0.0047**	0.0034 UJ	0.019 U	0.0038 U	**0.00034 J**	**0.0012 J**	**0.00072 J**
gamma-BHC (Lindane)	mg/kg	2.5	**0.0025**	0.0017 U	0.0095 U	0.0019 U	0.0018 U	0.0018 U	0.0018 U
gamma-Chlordane^	mg/kg	7.7	**0.0039**	0.0017 U	0.0095 U	0.0019 U	0.0018 U	0.0018 U	0.0018 U
Heptachlor	mg/kg	0.63	**0.0018 J**	0.0017 UJ	0.0095 U	0.0019 U	0.0018 U	0.0018 U	0.0018 U
Heptachlor epoxide	mg/kg	0.33	0.0019 U	0.0017 U	0.0095 U	0.0019 U	0.0018 U	0.0018 U	0.0018 U
Methoxychlor	mg/kg	4,100	**0.017 J**	0.0171 UJ	0.0952 U	0.0189 U	0.0179 U	0.0181 U	0.0185 U

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

*indicates non-validated data

^The USEPA RSL for Chlordane (technical mixture) was used as the PAL for both alpha- and gamma-Chlordane

[+]The USEPA RSL for Endosulfan was used as the PAL for both Endosulfan I and II

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.

Table 6 - Parcel B7 & Parcel B25
Summary of Pesticides Detected in Soil

Parameter	Units	PAL	B7-028-SB-1	B7-028-SB-2	B7-029-SB-1*	B7-029-SB-2*	B7-030-SB-1	B7-030-SB-2	B7-031-SB-1*
			10/4/2018	10/4/2018	10/5/2018	10/5/2018	10/3/2018	10/3/2018	10/8/2018
Pesticides									
4,4'-DDD	mg/kg	9.6	0.0037 U	0.004 U	0.0043 U	0.0041 U	0.0037 U	0.0365 U	0.0045 U
4,4'-DDE	mg/kg	9.3	0.0037 U	0.004 U	0.0043 U	0.0041 U	0.0037 U	0.0317 U	**0.0084**
4,4'-DDT	mg/kg	8.5	0.0037 UJ	0.004 UJ	0.0043 U	0.0041 U	0.0029 U	**0.105 J**	**0.0018 J**
Aldrin	mg/kg	0.18	0.0019 U	0.002 U	0.0022 U	0.002 U	0.0018 U	0.0183 U	0.0023 U
alpha-BHC	mg/kg	0.36	0.0019 UJ	0.002 UJ	0.0022 U	0.002 U	0.0018 U	0.0183 U	0.0023 U
alpha-Chlordane^	mg/kg	7.7	**0.00036 J**	0.002 UJ	**0.0031**	0.002 U	0.00068 U	**0.0054 J**	**0.00049 J**
beta-BHC	mg/kg	1.30	0.0019 U	0.002 UJ	0.0022 U	0.002 U	0.0018 UJ	0.0183 UJ	0.0023 U
Dieldrin	mg/kg	0.14	0.0037 U	0.004 U	0.0043 U	0.0041 U	0.0036 U	**0.0908 J**	**0.0038 J**
Endosulfan I[+]	mg/kg	7,000	0.0019 U	0.002 U	0.0022 U	0.002 U	0.0018 U	**0.0221 J**	**0.0039**
Endosulfan II[+]	mg/kg	7,000	0.0037 U	0.004 U	0.0043 U	0.0041 U	0.0037 U	**0.0379 J**	**0.0012 J**
Endosulfan sulfate	mg/kg	4,900	0.0037 U	0.004 U	0.0043 U	0.0041 U	0.0037 U	0.0126 U	**0.0018 J**
Endrin	mg/kg	250	0.0037 U	0.004 U	**0.0011 J**	0.0041 U	**0.0026 J**	**0.0808**	0.0045 U
Endrin aldehyde	mg/kg		0.0037 U	0.004 U	0.0043 U	0.0041 U	0.0015 U	**0.0236 J**	0.0045 U
Endrine ketone	mg/kg		0.0037 UJ	0.004 UJ	0.0043 U	0.0041 U	0.0036 U	**0.04 J**	**0.0058**
gamma-BHC (Lindane)	mg/kg	2.5	0.0019 UJ	0.002 UJ	0.0022 U	0.002 U	0.0018 U	**0.0081 J**	0.0023 U
gamma-Chlordane^	mg/kg	7.7	0.0019 U	0.002 U	**0.0021 J**	0.002 U	0.0018 UJ	**0.0554 J**	**0.0054**
Heptachlor	mg/kg	0.63	0.0013 U	**0.00041 J**	0.0022 U	0.002 U	**0.00047 J**	0.0183 UJ	**0.00053 J**
Heptachlor epoxide	mg/kg	0.33	0.0019 U	0.002 U	**0.0026**	0.002 U	0.0018 U	**0.0496 J**	**0.0088**
Methoxychlor	mg/kg	4,100	0.0187 UJ	0.02 UJ	0.0216 U	0.0204 U	0.0027 U	0.0215 U	0.0226 U

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

*indicates non-validated data

^The USEPA RSL for Chlordane (technical mixture) was used as the PAL for both alpha- and gamma-Chlordane

[+]The USEPA RSL for Endosulfan was used as the PAL for both Endosulfan I and II

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.

Table 6 - Parcel B7 & Parcel B25
Summary of Pesticides Detected in Soil

Parameter	Units	PAL	B7-031-SB-2*	B7-032-SB-1*	B7-032-SB-2*	B7-033-SB-1	B7-033-SB-2	B7-034-SB-1*	B7-034-SB-2*
			10/8/2018	12/21/2020	12/21/2020	10/4/2018	10/4/2018	10/2/2018	10/2/2018
Pesticides									
4,4'-DDD	mg/kg	9.6	0.004 U	0.0414 U	0.0199 U	0.004 U	0.004 U	0.004 U	0.004 U
4,4'-DDE	mg/kg	9.3	**0.0211**	0.0414 U	0.0199 U	0.004 U	0.004 U	0.004 U	0.004 U
4,4'-DDT	mg/kg	8.5	0.004 U	0.0414 U	0.0199 U	0.004 UJ	0.0021 U	0.004 U	0.004 U
Aldrin	mg/kg	0.18	0.002 U	0.0207 U	0.0099 U	0.002 U	0.002 U	0.002 U	0.002 U
alpha-BHC	mg/kg	0.36	0.002 U	0.0207 U	0.0099 U	0.002 UJ	0.002 UJ	0.002 U	0.002 U
alpha-Chlordane^	mg/kg	7.7	0.002 U	**0.0492**	**0.0029 J**	**0.00048 J**	**0.00028 J**	0.002 U	**0.00047 J**
beta-BHC	mg/kg	1.30	0.002 U	0.0207 U	0.0099 U	0.002 UJ	0.002 U	0.002 U	0.002 U
Dieldrin	mg/kg	0.14	**0.00082 J**	**0.0157 J**	0.0199 U	0.004 U	0.004 U	0.004 U	0.004 U
Endosulfan I[+]	mg/kg	7,000	0.002 U	0.0207 U	0.0099 U	0.002 U	0.002 U	0.002 U	0.002 U
Endosulfan II[+]	mg/kg	7,000	0.004 U	0.0414 U	0.0199 U	0.004 U	**0.00099 J**	0.004 U	0.004 U
Endosulfan sulfate	mg/kg	4,900	0.004 U	0.0414 U	0.0199 U	0.004 U	0.004 U	0.004 U	0.004 U
Endrin	mg/kg	250	0.004 U	0.0414 U	0.0199 U	0.004 U	**0.0021 J**	0.004 U	0.004 U
Endrin aldehyde	mg/kg		0.004 U	0.0414 U	0.0199 U	0.004 U	0.004 U	0.004 U	0.004 U
Endrine ketone	mg/kg		0.004 U	0.0414 U	0.0199 U	0.0017 U	0.0028 U	0.004 U	**0.00076 J**
gamma-BHC (Lindane)	mg/kg	2.5	0.002 U	0.0207 U	0.0099 U	0.002 UJ	0.002 UJ	0.002 U	0.002 U
gamma-Chlordane^	mg/kg	7.7	0.002 U	**0.0725**	0.0099 U	0.002 U	**0.005 J**	0.002 U	**0.0011 J**
Heptachlor	mg/kg	0.63	0.002 U	0.0207 U	0.0099 U	0.002 UJ	**0.0012 J**	0.002 U	0.002 U
Heptachlor epoxide	mg/kg	0.33	0.002 U	**0.0104 J**	0.0099 U	0.002 U	0.002 U	0.002 U	0.002 U
Methoxychlor	mg/kg	4,100	0.0199 U	0.207 U	0.0993 U	0.0201 UJ	0.02 UJ	0.0202 U	0.02 U

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
*indicates non-validated data
^The USEPA RSL for Chlordane (technical mixture) was used as the PAL for both alpha- and gamma-Chlordane
[+]The USEPA RSL for Endosulfan was used as the PAL for both Endosulfan I and II

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.

Table 6 - Parcel B7 & Parcel B25
Summary of Pesticides Detected in Soil

Parameter	Units	PAL	B7-035-SB-1*	B7-035-SB-2*	B7-036-SB-1	B7-036-SB-2	B7-037-SB-1*	B7-037-SB-2*	B7-038-SB-1*
			10/5/2018	10/5/2018	10/4/2018	10/4/2018	10/5/2018	10/5/2018	10/2/2018
Pesticides									
4,4'-DDD	mg/kg	9.6	0.0044 U	0.004 U	**0.0019 J**	0.004 U	0.0045 U	0.004 U	**0.0095**
4,4'-DDE	mg/kg	9.3	0.0044 U	0.004 U	**0.0054 J**	0.004 U	0.0045 U	0.004 U	**0.0096**
4,4'-DDT	mg/kg	8.5	0.0044 U	0.004 U	0.0042 UJ	0.004 UJ	0.0045 U	0.004 U	**0.0016 J**
Aldrin	mg/kg	0.18	0.0022 U	0.002 U	**0.146 J**	0.002 U	0.0023 U	0.002 U	**0.0027**
alpha-BHC	mg/kg	0.36	0.0022 U	0.002 U	0.0021 UJ	0.002 UJ	0.0023 U	0.002 U	**0.0102**
alpha-Chlordane^	mg/kg	7.7	**0.0021 J**	0.002 U	**0.0782**	**0.0082**	0.0023 U	0.002 U	**0.0072**
beta-BHC	mg/kg	1.30	0.0022 U	0.002 U	0.0021 UJ	0.002 UJ	0.0023 U	0.002 U	**0.116**
Dieldrin	mg/kg	0.14	0.0044 U	0.004 U	**0.003 J**	0.004 U	0.0045 U	0.004 U	0.0047 U
Endosulfan I[+]	mg/kg	7,000	0.0022 U	0.002 U	**0.0115**	**0.0013 J**	0.0023 U	0.002 U	0.0023 U
Endosulfan II[+]	mg/kg	7,000	0.0044 U	0.004 U	**0.0052 J**	0.004 U	0.0045 U	0.004 U	**0.0059**
Endosulfan sulfate	mg/kg	4,900	0.0044 U	0.004 U	0.0038 U	0.004 U	0.0045 U	0.004 U	**0.0053**
Endrin	mg/kg	250	0.0044 U	0.004 U	**0.0093 J**	0.004 U	0.0045 U	0.004 U	**0.0055**
Endrin aldehyde	mg/kg		0.0044 U	**0.0019 J**	**0.0196 J**	0.004 U	0.0045 U	0.004 U	**0.0034 J**
Endrine ketone	mg/kg		**0.0031 J**	0.004 U	**0.004 J**	**0.00081 J**	0.0045 U	0.004 U	0.0047 U
gamma-BHC (Lindane)	mg/kg	2.5	0.0022 U	0.002 U	0.0021 UJ	0.002 UJ	0.0023 U	0.002 U	**0.013**
gamma-Chlordane^	mg/kg	7.7	0.0022 U	0.002 U	**0.13 J**	**0.0232 J**	0.0023 U	0.002 U	**0.0016 J**
Heptachlor	mg/kg	0.63	**0.0016 J**	0.002 U	**0.00067 J**	0.002 UJ	0.0023 U	0.002 U	**0.0023 J**
Heptachlor epoxide	mg/kg	0.33	**0.0031**	0.002 U	**0.057**	**0.0072**	0.0023 U	0.002 U	**0.0028**
Methoxychlor	mg/kg	4,100	0.022 U	0.02 U	0.0212 UJ	0.0202 UJ	0.0225 U	0.0199 U	**0.0485**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
*indicates non-validated data
^The USEPA RSL for Chlordane (technical mixture) was used as the PAL for both alpha- and gamma-Chlordane
[+]The USEPA RSL for Endosulfan was used as the PAL for both Endosulfan I and II

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.

Table 6 - Parcel B7 & Parcel B25
Summary of Pesticides Detected in Soil

Parameter	Units	PAL	B7-038-SB-2*	B7-039-SB-1	B7-039-SB-2	B7-040-SB-1*	B7-040-SB-2*	B7-041-SB-1	B7-041-SB-2
			10/2/2018	10/4/2018	10/4/2018	10/2/2018	10/2/2018	10/3/2018	10/3/2018
Pesticides									
4,4'-DDD	mg/kg	9.6	0.0041 U	0.0041 U	0.004 U	0.0038 U	**0.0147 J**	0.0041 U	0.0044 U
4,4'-DDE	mg/kg	9.3	0.0041 U	0.0041 U	0.004 U	0.0038 U	0.0394 U	0.0041 U	0.0044 U
4,4'-DDT	mg/kg	8.5	0.0041 U	0.0041 UJ	0.004 UJ	0.0038 U	0.0394 U	0.0041 UJ	0.0044 UJ
Aldrin	mg/kg	0.18	0.0021 U	0.0021 U	0.002 U	**0.0007 J**	0.0197 U	0.0021 U	0.0022 U
alpha-BHC	mg/kg	0.36	0.0021 U	0.0021 UJ	0.002 UJ	0.0019 U	0.0197 U	0.0021 U	0.0022 U
alpha-Chlordane^	mg/kg	7.7	0.0021 U	0.0021 UJ	0.002 UJ	**0.00035 J**	0.0197 U	0.0021 U	0.0022 U
beta-BHC	mg/kg	1.30	0.0021 U	0.0021 UJ	0.002 UJ	0.0019 U	0.0197 U	0.0021 U	0.0058 U
Dieldrin	mg/kg	0.14	0.0041 U	0.0041 U	0.004 U	0.0038 U	0.0394 U	0.0041 U	0.0044 U
Endosulfan I[+]	mg/kg	7,000	0.0021 U	0.0021 U	0.002 U	0.0019 U	0.0197 U	0.0021 U	0.0022 U
Endosulfan II[+]	mg/kg	7,000	0.0041 U	0.0041 U	0.004 U	**0.0022 J**	**0.0203 J**	**0.00079 J**	0.0044 U
Endosulfan sulfate	mg/kg	4,900	**0.0039 J**	0.0041 U	0.004 U	0.0038 U	**0.064**	0.0039 U	0.0044 U
Endrin	mg/kg	250	0.0041 U	0.0041 U	0.004 U	**0.0037 J**	**0.0266 J**	0.0041 U	0.0044 U
Endrin aldehyde	mg/kg		0.0041 U	0.0041 U	0.004 U	**0.002 J**	0.0394 U	0.0041 U	0.0044 U
Endrine ketone	mg/kg		**0.0032 J**	0.0041 UJ	0.004 UJ	**0.0113**	**0.0717**	**0.0013 J**	0.0044 UJ
gamma-BHC (Lindane)	mg/kg	2.5	0.0021 U	0.0021 UJ	0.002 UJ	**0.0044**	**0.0284**	0.0021 UJ	0.0022 UJ
gamma-Chlordane^	mg/kg	7.7	0.0021 U	0.0021 U	0.002 U	0.0019 U	0.0197 U	0.0021 U	0.0022 U
Heptachlor	mg/kg	0.63	**0.0011 J**	0.0021 UJ	0.002 UJ	0.0019 U	**0.0054 J**	0.0021 UJ	0.0022 U
Heptachlor epoxide	mg/kg	0.33	0.0021 U	0.0021 U	0.002 U	0.0019 U	0.0197 U	0.0021 U	0.0022 U
Methoxychlor	mg/kg	4,100	0.0207 U	0.0206 UJ	0.02 UJ	**0.0747**	**0.508**	0.0207 UJ	0.0221 UJ

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
*indicates non-validated data
^The USEPA RSL for Chlordane (technical mixture) was used as the PAL for both alpha- and gamma-Chlordane
[+]The USEPA RSL for Endosulfan was used as the PAL for both Endosulfan I and II

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.

Table 6 - Parcel B7 & Parcel B25
Summary of Pesticides Detected in Soil

Parameter	Units	PAL	B7-042-SB-1	B7-042-SB-2	B7-043-SB-1*	B7-043-SB-2*	B7-044-SB-1	B7-044-SB-2	B7-053-SB-1
			10/4/2018	10/4/2018	10/5/2018	10/5/2018	10/4/2018	10/4/2018	12/7/2020
Pesticides									
4,4'-DDD	mg/kg	9.6	0.0051 U	0.004 U	0.0041 U	0.004 U	0.0041 U	0.0042 U	0.0184 U
4,4'-DDE	mg/kg	9.3	0.0051 U	0.004 U	0.0041 U	0.004 U	0.0041 U	0.0042 U	0.0184 U
4,4'-DDT	mg/kg	8.5	**0.0079 J**	0.004 UJ	0.0041 U	0.004 U	0.0041 UJ	0.0042 UJ	0.0184 UJ
Aldrin	mg/kg	0.18	0.0025 U	0.002 U	0.002 U	0.002 U	0.0021 U	0.0021 U	0.0092 U
alpha-BHC	mg/kg	0.36	0.0025 UJ	0.002 UJ	0.002 U	0.002 U	0.0021 UJ	0.0021 UJ	0.0092 U
alpha-Chlordane^	mg/kg	7.7	0.0007 U	0.002 UJ	0.002 U	0.002 U	0.0021 UJ	0.00069 U	0.0092 U
beta-BHC	mg/kg	1.30	0.0025 UJ	0.002 UJ	0.002 U	0.002 U	0.0021 UJ	0.0021 UJ	0.0092 U
Dieldrin	mg/kg	0.14	**0.0052 J**	0.004 U	0.0041 U	0.004 U	0.0041 U	0.0042 U	0.0184 U
Endosulfan I[+]	mg/kg	7,000	**0.00063 J**	0.002 U	0.002 U	0.002 U	0.0021 U	0.0021 U	0.0092 U
Endosulfan II[+]	mg/kg	7,000	0.0051 U	0.004 U	0.0041 U	0.004 U	0.0041 U	0.0042 U	0.0184 U
Endosulfan sulfate	mg/kg	4,900	0.0022 U	0.004 U	0.0041 U	0.004 U	0.0041 U	0.0042 U	0.0184 U
Endrin	mg/kg	250	**0.0084 J**	0.004 U	0.0041 U	0.004 U	0.0041 U	0.0042 U	0.0184 U
Endrin aldehyde	mg/kg		0.0037 U	0.004 U	0.0041 U	0.004 U	0.0041 U	**0.0022 J**	0.0184 U
Endrine ketone	mg/kg		**0.0068 J**	0.004 UJ	0.0041 U	0.004 U	0.0041 UJ	0.0042 UJ	0.0184 U
gamma-BHC (Lindane)	mg/kg	2.5	0.0025 UJ	0.002 UJ	0.002 U	0.002 U	0.0021 UJ	0.0021 UJ	0.0092 U
gamma-Chlordane^	mg/kg	7.7	**0.0043**	0.002 U	0.002 U	0.002 U	**0.001 J**	0.0021 U	0.0092 U
Heptachlor	mg/kg	0.63	0.0025 UJ	0.002 UJ	0.002 U	0.002 U	0.0021 UJ	0.0021 UJ	0.0092 U
Heptachlor epoxide	mg/kg	0.33	0.0025 U	0.002 U	0.002 U	0.002 U	0.0021 U	0.0021 U	0.0092 U
Methoxychlor	mg/kg	4,100	**0.0052 J**	0.0202 UJ	0.0203 U	0.0198 U	0.0207 UJ	0.0209 UJ	0.0918 UJ

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
*indicates non-validated data
^The USEPA RSL for Chlordane (technical mixture) was used as the PAL for both alpha- and gamma-Chlordane
[+]The USEPA RSL for Endosulfan was used as the PAL for both Endosulfan I and II

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.

Table 6 - Parcel B7 & Parcel B25
Summary of Pesticides Detected in Soil

Parameter	Units	PAL	B7-053-SB-2	B7-054-SB-1	B7-054-SB-2	B7-055-SB-1*	B7-055-SB-2*	B7-056-SB-1	B7-056-SB-2
			12/7/2020	12/7/2020	12/7/2020	12/8/2020	12/8/2020	12/7/2020	12/7/2020
Pesticides									
4,4'-DDD	mg/kg	9.6	0.0038 U	0.0177 U	0.0039 U	0.0041 U	0.02 U	0.0196 U	0.019 U
4,4'-DDE	mg/kg	9.3	0.0038 U	0.0177 U	0.0039 U	0.0041 U	0.02 U	0.0196 U	0.019 U
4,4'-DDT	mg/kg	8.5	0.0038 UJ	0.0177 UJ	0.0039 UJ	0.0041 U	0.02 U	0.0196 UJ	0.019 UJ
Aldrin	mg/kg	0.18	0.0019 U	0.0089 U	0.002 U	0.0021 U	0.01 U	0.0098 U	0.0095 U
alpha-BHC	mg/kg	0.36	0.0019 U	0.0089 U	0.002 U	0.0021 U	0.01 U	0.0098 U	0.0095 U
alpha-Chlordane^	mg/kg	7.7	0.0019 U	0.0089 U	0.002 U	0.0021 U	0.01 U	0.0098 U	0.0095 U
beta-BHC	mg/kg	1.30	0.0019 U	0.0089 U	0.002 U	0.0021 U	0.01 U	0.0098 U	0.0095 U
Dieldrin	mg/kg	0.14	0.0038 U	0.0177 U	0.0039 U	0.0041 U	0.02 U	0.0196 U	0.019 U
Endosulfan I[+]	mg/kg	7,000	0.0019 U	0.0089 U	0.002 U	0.0021 U	0.01 U	0.0098 U	0.0095 U
Endosulfan II[+]	mg/kg	7,000	0.0038 U	0.0177 U	0.0039 U	0.0041 U	0.02 U	0.0196 U	0.019 U
Endosulfan sulfate	mg/kg	4,900	0.0038 U	0.0177 U	0.0039 U	0.0041 U	0.02 U	0.0196 U	0.019 U
Endrin	mg/kg	250	0.0038 U	0.0177 U	0.0039 U	0.0041 U	0.02 U	0.0196 U	0.019 U
Endrin aldehyde	mg/kg		0.0038 U	0.0177 U	0.0039 U	0.0041 U	0.02 U	0.0196 U	0.019 U
Endrine ketone	mg/kg		0.0038 U	0.0177 U	0.0039 U	0.0041 U	0.02 U	0.0196 U	0.019 U
gamma-BHC (Lindane)	mg/kg	2.5	0.0019 U	0.0089 U	0.002 U	0.0021 U	0.01 U	0.0098 U	0.0095 U
gamma-Chlordane^	mg/kg	7.7	0.0019 U	0.0089 U	0.002 U	0.0021 U	0.01 U	0.0098 U	0.0095 U
Heptachlor	mg/kg	0.63	0.0019 U	0.0089 U	0.002 U	0.0021 U	0.01 U	0.0098 U	0.0095 U
Heptachlor epoxide	mg/kg	0.33	0.0019 U	0.0089 U	0.002 U	0.0021 U	0.01 U	0.0098 U	0.0095 U
Methoxychlor	mg/kg	4,100	0.0192 UJ	0.0887 UJ	0.0196 UJ	0.0205 U	0.0998 U	0.0979 UJ	0.0952 UJ

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

*indicates non-validated data

^The USEPA RSL for Chlordane (technical mixture) was used as the PAL for both alpha- and gamma-Chlordane

[+]The USEPA RSL for Endosulfan was used as the PAL for both Endosulfan I and II

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.

Table 6 - Parcel B7 & Parcel B25
Summary of Pesticides Detected in Soil

Parameter	Units	PAL	B7-057-SB-1* 12/10/2020	B7-057-SB-2* 12/10/2020	B7-058-SB-1 12/7/2020	B7-058-SB-2 12/7/2020	B7-059-SB-1 12/7/2020	B7-059-SB-2 12/7/2020	B7-060-SB-1* 12/8/2020
Pesticides									
4,4'-DDD	mg/kg	9.6	0.0194 U	0.0216 U	0.0039 U	0.0041 U	0.004 U	0.0045 U	0.0429 U
4,4'-DDE	mg/kg	9.3	0.0194 U	**0.0028 J**	0.0039 U	0.0041 U	0.004 U	0.0045 U	0.0429 U
4,4'-DDT	mg/kg	8.5	0.0194 U	0.0216 U	0.0039 UJ	0.0041 UJ	0.004 UJ	0.0045 UJ	0.0429 U
Aldrin	mg/kg	0.18	0.0097 U	0.0108 U	0.002 U	0.002 U	0.002 U	0.0022 U	0.0214 U
alpha-BHC	mg/kg	0.36	0.0097 U	0.0108 U	0.002 U	0.002 U	0.002 U	0.0022 U	0.0214 U
alpha-Chlordane^	mg/kg	7.7	0.0097 U	0.0108 U	0.002 U	0.002 U	0.002 U	0.0022 U	0.0214 U
beta-BHC	mg/kg	1.30	0.0097 U	0.0108 U	0.002 U	0.002 U	0.002 U	0.0022 U	0.0214 U
Dieldrin	mg/kg	0.14	0.0194 U	0.0216 U	0.0039 U	0.0041 U	0.004 U	0.0045 U	0.0429 U
Endosulfan I[+]	mg/kg	7,000	0.0097 U	0.0108 U	0.002 U	0.002 U	0.002 U	0.0022 U	0.0214 U
Endosulfan II[+]	mg/kg	7,000	0.0194 U	0.0216 U	0.0039 U	0.0041 U	0.004 U	0.0045 U	0.0429 U
Endosulfan sulfate	mg/kg	4,900	0.0194 U	0.0216 U	0.0039 U	0.0041 U	0.004 U	0.0045 U	0.0429 U
Endrin	mg/kg	250	0.0194 U	0.0216 U	0.0039 U	0.0041 U	0.004 U	0.0045 U	0.0429 U
Endrin aldehyde	mg/kg		0.0194 U	0.0216 U	0.0039 U	**0.026**	0.004 U	0.0045 U	0.0429 U
Endrine ketone	mg/kg		0.0194 U	0.0216 U	0.0039 U	0.0041 U	0.004 U	0.0045 U	0.0429 U
gamma-BHC (Lindane)	mg/kg	2.5	0.0097 U	0.0108 U	0.002 U	0.002 U	0.002 U	0.0022 U	0.0214 U
gamma-Chlordane^	mg/kg	7.7	0.0097 U	0.0108 U	0.002 U	0.002 U	0.002 U	0.0022 U	0.0214 U
Heptachlor	mg/kg	0.63	0.0097 U	0.0108 U	0.002 U	0.002 U	0.002 U	0.0022 U	0.0214 U
Heptachlor epoxide	mg/kg	0.33	0.0097 U	0.0108 U	0.002 U	0.002 U	0.002 U	0.0022 U	0.0214 U
Methoxychlor	mg/kg	4,100	0.097 U	0.108 U	0.0196 UJ	0.0204 UJ	0.0202 UJ	0.0225 UJ	0.214 U

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
*indicates non-validated data
^The USEPA RSL for Chlordane (technical mixture) was used as the PAL for both alpha- and gamma-Chlordane
[+]The USEPA RSL for Endosulfan was used as the PAL for both Endosulfan I and II

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.

Table 6 - Parcel B7 & Parcel B25
Summary of Pesticides Detected in Soil

Parameter	Units	PAL	B7-060-SB-2*	B7-061-SB-1*	B7-061-SB-2*	B7-064-SB-1*	B7-064-SB-2*	B7-065-SB-1*	B7-065-SB-2*
			12/8/2020	12/10/2020	12/10/2020	12/10/2020	12/10/2020	12/10/2020	12/10/2020
Pesticides									
4,4'-DDD	mg/kg	9.6	0.021 U	0.0039 U	0.004 U	0.0039 U	0.0039 U	0.004 U	0.0042 U
4,4'-DDE	mg/kg	9.3	0.021 U	0.0039 U	0.004 U	0.0039 U	0.0039 U	0.004 U	0.0042 U
4,4'-DDT	mg/kg	8.5	0.021 U	0.0039 U	0.004 U	0.0039 U	0.0039 U	0.004 U	0.0042 U
Aldrin	mg/kg	0.18	0.0105 U	0.0019 U	0.002 U	0.002 U	0.0019 U	0.002 U	0.0021 U
alpha-BHC	mg/kg	0.36	0.0105 U	0.0019 U	0.002 U	0.002 U	0.0019 U	0.002 U	0.0021 U
alpha-Chlordane^	mg/kg	7.7	0.0105 U	0.0019 U	0.002 U	0.002 U	0.0019 U	0.002 U	0.0021 U
beta-BHC	mg/kg	1.30	0.0105 U	0.0019 U	0.002 U	0.002 U	0.0019 U	0.002 U	0.0021 U
Dieldrin	mg/kg	0.14	0.021 U	0.0039 U	0.004 U	0.0039 U	0.0039 U	0.004 U	0.0042 U
Endosulfan I[+]	mg/kg	7,000	0.0105 U	0.0019 U	0.002 U	0.002 U	0.0019 U	0.002 U	0.0021 U
Endosulfan II[+]	mg/kg	7,000	0.021 U	0.0039 U	0.004 U	0.0039 U	0.0039 U	0.004 U	0.0042 U
Endosulfan sulfate	mg/kg	4,900	0.021 U	0.0039 U	0.004 U	0.0039 U	0.0039 U	0.004 U	0.0042 U
Endrin	mg/kg	250	0.021 U	0.0039 U	0.004 U	0.0039 U	0.0039 U	0.004 U	0.0042 U
Endrin aldehyde	mg/kg		0.021 U	0.0039 U	0.004 U	0.0039 U	0.0039 U	0.004 U	0.0042 U
Endrine ketone	mg/kg		0.021 U	0.0039 U	0.004 U	0.0039 U	0.0039 U	0.004 U	0.0042 U
gamma-BHC (Lindane)	mg/kg	2.5	0.0105 U	0.0019 U	0.002 U	0.002 U	0.0019 U	0.002 U	0.0021 U
gamma-Chlordane^	mg/kg	7.7	0.0105 U	0.0019 U	0.002 U	0.002 U	0.0019 U	0.002 U	0.0021 U
Heptachlor	mg/kg	0.63	0.0105 U	0.0019 U	0.002 U	0.002 U	0.0019 U	0.002 U	0.0021 U
Heptachlor epoxide	mg/kg	0.33	0.0105 U	0.0019 U	0.002 U	0.002 U	0.0019 U	0.002 U	0.0021 U
Methoxychlor	mg/kg	4,100	0.105 U	0.0195 U	0.02 U	0.0196 U	0.0194 U	0.0198 U	0.0209 U

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
*indicates non-validated data
^The USEPA RSL for Chlordane (technical mixture) was used as the PAL for both alpha- and gamma-Chlordane
[+]The USEPA RSL for Endosulfan was used as the PAL for both Endosulfan I and II

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.

Table 7 - Parcel B7 (Baltimore Fire Academy)
Summary of PFAS Detected in Soil

Parameter	Units	B7-004-SB-1	B7-004-SB-5	B7-004-SB-10	B7-005-SB-1	B7-005-SB-5	B7-005-SB-10
		2/28/2019	2/28/2019	2/28/2019	3/1/2019	3/1/2019	3/1/2019
Per- and Polyfluoroalkyl Substances							
PFBA	mg/kg	0.0006 UJ	0.0006 UJ	0.00057 UJ	0.00027 U	0.00061 U	0.0006 U
PFDA	mg/kg	0.0006 U	0.0006 U	0.00057 U	**0.001**	0.0012 U	0.0006 U
PFDoA	mg/kg	0.0006 U	0.0006 U	0.00057 U	**0.00028**	0.0012 U	0.0006 U
PFHpA	mg/kg	0.0006 U	0.0006 U	0.00057 U	0.00027 U	0.00061 U	0.0006 U
PFHxA	mg/kg	0.0006 UJ	0.0006 UJ	0.00057 UJ	0.00027 U	0.00061 U	**0.0018**
PFHxDA	mg/kg	0.0006 U	0.0006 U	0.00057 U	0.00027 U	0.0012 U	0.0006 U
PFHxS	mg/kg	0.00057 UJ	0.00057 UJ	0.00054 UJ	0.00027 U	0.00058 U	0.00057 U
PFNA	mg/kg	0.0006 U	**0.00063**	0.00057 U	0.00027 U	0.00061 U	0.0006 U
PFOA	mg/kg	0.0012 U	0.0012 U	0.0011 U	0.00027 U	0.00061 U	0.0006 U
PFOS	mg/kg	0.00057 U	**0.0014**	0.00055 U	**0.0018**	0.00058 U	0.00057 U
PFPeA	mg/kg	**0.00065 J**	**0.00068 J**	0.00057 UJ	0.00027 U	**0.00067**	**0.0028**
PFTeDA	mg/kg	0.0006 U	0.0006 U	0.00057 U	0.00027 U	0.0012 U	0.0006 U
PFTrDA	mg/kg	0.0006 U	0.0006 U	0.00057 U	0.00027 U	0.0012 U	0.0006 U
PFUdA	mg/kg	0.0006 U	0.0006 U	0.00057 U	**0.0016**	0.0012 U	0.0006 U

Detections in bold

All results were validated

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.

Table 7 - Parcel B7 (Baltimore Fire Academy)
Summary of PFAS Detected in Soil

Parameter	Units	B7-006-SB-1	B7-006-SB-5	B7-022-SB-1.5	B7-022-SB-5	B7-022-SB-10	B7-023-SB-1.5
		2/28/2019	2/28/2019	2/28/2019	2/28/2019	2/28/2019	2/28/2019
Per- and Polyfluoroalkyl Substances							
PFBA	mg/kg	**0.00071 J**	**0.00084 J**	0.00053 UJ	0.00057 UJ	0.00061 UJ	0.00058 UJ
PFDA	mg/kg	0.00057 U	0.00056 U	0.00053 U	0.00057 U	0.00061 U	0.00058 U
PFDoA	mg/kg	0.00057 U	0.00056 U	0.00053 U	0.00057 U	0.00061 U	0.00058 U
PFHpA	mg/kg	**0.0031**	**0.0027**	0.00053 U	0.00057 UJ	0.00061 U	0.00058 U
PFHxA	mg/kg	**0.0036 J**	**0.004 J**	0.00053 UJ	0.00057 UJ	0.00061 UJ	0.00058 UJ
PFHxDA	mg/kg	0.00057 U	0.00056 U	0.00053 U	0.00057 U	0.00061 U	0.00058 U
PFHxS	mg/kg	**0.01 J**	**0.0042 J**	0.00051 UJ	0.00054 UJ	0.00058 UJ	0.00055 UJ
PFNA	mg/kg	**0.00068**	0.00056 U	0.00053 U	0.00057 U	0.00061 U	0.00058 U
PFOA	mg/kg	**0.004**	**0.0029**	0.0011 U	0.00057 U	0.0012 U	0.0012 U
PFOS	mg/kg	**0.0015**	**0.00079**	0.001 U	0.00055 U	0.0012 U	**0.0084**
PFPeA	mg/kg	**0.0041 J**	**0.0048 J**	**0.00058 J**	**0.00057 J**	0.00061 UJ	**0.00059 J**
PFTeDA	mg/kg	0.00057 U	0.00056 U	0.00053 U	0.00057 U	0.00061 U	0.00058 U
PFTrDA	mg/kg	0.00057 U	0.00056 U	0.00053 U	0.00057 U	0.00061 U	0.00058 U
PFUdA	mg/kg	0.00057 U	0.00056 U	0.00053 U	0.00057 U	0.00061 U	0.00058 U

Detections in bold

All results were validated

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.

Table 7 - Parcel B7 (Baltimore Fire Academy)
Summary of PFAS Detected in Soil

Parameter	Units	B7-023-SB-5	B7-026-SD	B7-027-SD	B7-045-SB-1.5	B7-045-SB-5	B7-045-SB-10
		2/28/2019	2/28/2019	2/28/2019	2/28/2019	2/28/2019	2/28/2019
Per- and Polyfluoroalkyl Substances							
PFBA	mg/kg	0.00055 UJ	0.00081 UJ	0.00071 UJ	0.00056 UJ	0.00057 UJ	0.0006 UJ
PFDA	mg/kg	0.00055 UJ	**0.0015**	**0.0028 J**	0.00056 U	0.00057 U	0.0006 U
PFDoA	mg/kg	0.00055 U	**0.00084**	**0.0032**	0.00056 U	0.00057 U	0.0006 U
PFHpA	mg/kg	0.00055 U	**0.002**	**0.0015**	0.00056 U	0.00057 UJ	0.0006 UJ
PFHxA	mg/kg	0.00055 UJ	**0.0017 J**	**0.0013 J**	0.00056 UJ	0.00057 UJ	0.0006 UJ
PFHxDA	mg/kg	0.00055 U	0.00081 U	**0.00072**	0.00056 U	0.00057 U	0.0006 U
PFHxS	mg/kg	0.00053 UJ	0.00077 UJ	**0.002 J**	0.00054 UJ	0.00054 UJ	0.00057 UJ
PFNA	mg/kg	0.00055 UJ	**0.0014**	**0.0037 J**	0.00056 U	0.00057 U	0.0006 U
PFOA	mg/kg	0.0011 U	**0.0029**	**0.0024 J**	0.0011 U	0.0011 U	0.0012 U
PFOS	mg/kg	**0.0029 J**	**0.01**	**0.014 J**	**0.0015**	0.0011 U	0.0012 U
PFPeA	mg/kg	**0.00085 J**	**0.0021 J**	**0.0015 J**	0.00056 UJ	0.00057 UJ	**0.00089 J**
PFTeDA	mg/kg	0.00055 U	0.00081 U	**0.0026**	0.00056 U	0.00057 U	0.0006 U
PFTrDA	mg/kg	0.00055 U	0.00081 U	**0.0038**	0.00056 U	0.00057 U	0.0006 U
PFUdA	mg/kg	0.00055 U	**0.0022**	**0.0027**	0.00056 U	0.00057 U	0.0006 U

Detections in bold

All results were validated

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.

Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B25-001-SB-1* 10/17/2018	B25-001-SB-2* 10/17/2018	B25-001-SB-4* 10/17/2018	B25-002-SB-1* 10/17/2018	B25-002-SB-2* 10/17/2018	B25-002-SB-5* 10/17/2018	B25-003-SB-1* 10/17/2018	B25-003-SB-2* 10/17/2018
Metal										
Aluminum	mg/kg	1,100,000	**13,200**	**16,400**	**12,300**	**17,000**	**11,800**	**13,900**	**18,200**	**19,900**
Antimony	mg/kg	470	2.7 U	2.8 U	2.8 U	2.7 U	2.8 U	2.8 U	2.8 U	2.8 U
Arsenic	mg/kg	3	**3.5**	**3**	**4**	**4.2**	**4.7**	**11.1**	**4.8**	**6.3**
Barium	mg/kg	220,000	**57.9**	**54.5**	**37.8**	**50**	**24.2**	**31.2**	**51.9**	**77.8**
Beryllium	mg/kg	2,300	**0.45 J**	**0.39 J**	**0.46 J**	**0.45 J**	**0.29 J**	**0.66 J**	**0.57 J**	**0.71 J**
Cadmium	mg/kg	980	1.3 U	1.4 U	1.4 U	1.3 U	1.4 U	1.4 U	1.4 U	1.4 U
Chromium	mg/kg	120,000	**20.4**	**17.1**	**17.3**	**19.5**	**11.8**	**31.6**	**25.4**	**23.8**
Chromium VI	mg/kg	6.3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**1.3**	1.2 U	1.2 U
Cobalt	mg/kg	350	**4.7**	**4 J**	**3.9 J**	**5.1**	**2.8 J**	**4.8**	**5.4**	**5.1**
Copper	mg/kg	47,000	**11.3**	**4.7**	**6.9**	**8**	**4.9**	**11.6**	**10.9**	**10.6**
Iron	mg/kg	820,000	**15,700**	**16,100**	**12,100**	**17,800**	**12,200**	**24,700**	**21,600**	**20,700**
Lead	mg/kg	800	**37.1**	**10.7**	**23**	**13.5**	**8**	**21.7**	**17.6**	**14.5**
Manganese	mg/kg	26,000	**209**	**84.3**	**56.9**	**115**	**38.8**	**96.5**	**181**	**114**
Mercury	mg/kg	350	**0.034 J**	**0.017 J**	**0.044 J**	**0.049 J**	**0.014 J**	**0.016 J**	**0.043 J**	**0.036 J**
Nickel	mg/kg	22,000	**11.9**	**11**	**10.7**	**10.3**	**7.8 J**	**8.3 J**	**13.1**	**11.7**
Selenium	mg/kg	5,800	3.6 U	3.7 U	3.7 U	3.6 U	3.7 U	3.7 U	3.7 U	3.8 U
Silver	mg/kg	5,800	2.7 U	2.8 U	2.8 U	2.7 U	2.8 U	2.8 U	2.8 U	2.8 U
Vanadium	mg/kg	5,800	**30.8**	**29.4**	**28.1**	**29.3**	**16.4**	**56.8**	**37.4**	**35.4**
Zinc	mg/kg	350,000	**120**	**29.9**	**54.8**	**41.3**	**21.6**	**27.4**	**60.6**	**31.7**
Other										
Cyanide	mg/kg	150	1.1 U	1.2 U	1.2 U	1.2 U	1 U	1.2 U	1.1 U	1 U

Detections in bold
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J-: The positive result reported for this analyte is a quantitative estimate, but may be biased low.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B25-003-SB-4*	B25-004-SB-1*	B25-004-SB-2*	B25-004-SB-4*	B25-005-SB-1	B25-005-SB-2	B25-005-SB-5	B25-006-SB-1	B25-006-SB-2
			10/17/2018	10/18/2018	10/18/2018	10/18/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018
Metal											
Aluminum	mg/kg	1,100,000	**12,500**	**15,600**	**15,100**	**15,000**	**40,100**	**8,920**	**17,800**	**13,000**	**12,200**
Antimony	mg/kg	470	2.8 U	2.9 U	2.8 U	2.8 U	2.9 UJ	2.7 UJ	2.9 UJ	2.7 UJ	2.9 UJ
Arsenic	mg/kg	3	**11.1**	**5.6**	**3.5**	**4.5**	2.4 U	**4.6**	**7**	**11.1**	**23.8**
Barium	mg/kg	220,000	**23.9**	**72**	**48.3**	**36.3**	**526**	**65**	**53.1**	**214**	**98.7**
Beryllium	mg/kg	2,300	**0.28 J**	**0.85 J**	**0.49 J**	**0.36 J**	**6.5**	**0.55 J**	**0.91 J**	**1.3**	**0.66 J**
Cadmium	mg/kg	980	**3.6**	**0.62 J**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**1.5**	**0.32 J**
Chromium	mg/kg	120,000	**11.4**	**26.7**	**20.3**	**18.4**	**34.7**	**17.5**	**27.4**	**886**	**39.8**
Chromium VI	mg/kg	6.3	**2**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**0.77 J**
Cobalt	mg/kg	350	**1.9 J**	**10.5**	**4.5 J**	**3 J**	**2.7 J**	**6.5**	**7.9**	**20.8**	**7.9**
Copper	mg/kg	47,000	4.7 U	**14.3**	**6.4**	**7.4**	**12.2**	**18.9**	**11.7**	**148**	**23.5**
Iron	mg/kg	820,000	**20,200**	**18,600**	**17,500**	**14,900**	**14,500**	**10,500**	**21,700**	**189,000**	**19,100**
Lead	mg/kg	800	**7.6**	**41.2**	**9.9**	**10.9**	**26.4**	**66.9**	**12.1**	**217**	**180**
Manganese	mg/kg	26,000	**21.2**	**516**	**89.7**	**111**	**3,630**	**109**	**69**	**23,600**	**548**
Mercury	mg/kg	350	**0.02 J**	**0.15**	**0.018 J**	**0.024 J**	**2**	**22.3**	0.12 U	**0.75**	**49.7**
Nickel	mg/kg	22,000	**4.6 J**	**17.8**	**13.3**	**9.3**	**5.4 J**	**11.7**	**15.7**	**46.2**	**13.9**
Selenium	mg/kg	5,800	3.7 U	3.9 U	3.7 U	3.7 U	3.8 U	3.6 U	3.8 U	3.6 U	3.8 U
Silver	mg/kg	5,800	2.8 U	2.9 U	2.8 U	2.8 U	2.9 U	2.7 U	2.9 U	2.7 U	2.9 U
Vanadium	mg/kg	5,800	**16.6**	**41.7**	**30.9**	**29.4**	**66.6**	**23.6**	**40.3**	**947**	**52.1**
Zinc	mg/kg	350,000	**13**	**213**	**40.2**	**26.5**	**55.8**	**72.6**	**40.3**	**429**	**147**
Other											
Cyanide	mg/kg	150	1 U	**0.27 J**	1.2 U	1.1 U	**0.68 J**	0.93 U	1.2 U	**1.9**	**0.14 J**

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

Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B25-006-SB-7	B25-007-SB-1	B25-007-SB-2	B25-007-SB-4	B25-008-SB-1	B25-008-SB-2	B25-008-SB-4	B25-009-SB-1	B25-009-SB-2
			10/19/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018
Metal											
Aluminum	mg/kg	1,100,000	**16,900**	**7,880**	**10,700**	**9,390**	**13,300**	**16,500**	**16,300**	**8,720**	**18,000**
Antimony	mg/kg	470	2.7 UJ	3.1 UJ	2.7 UJ	2.7 UJ	2.7 UJ	2.8 UJ	2.7 UJ	2.8 UJ	2.8 UJ
Arsenic	mg/kg	3	2.3 U	**4.9**	**4.5**	**15.1**	**3.4**	**4.5**	**3.5**	**4.7**	**3.7**
Barium	mg/kg	220,000	**62.7**	**62**	**27.6**	**23.6**	**44**	**38.6**	**83.4**	**51.1**	**43.9**
Beryllium	mg/kg	2,300	**0.39 J**	**0.52 J**	**0.31 J**	**0.42 J**	**0.37 J**	**0.43 J**	**0.42 J**	**0.51 J**	**0.47 J**
Cadmium	mg/kg	980	1.4 U	**0.43 J**	1.3 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Chromium	mg/kg	120,000	**16.2**	**29.7**	**15.9**	**18.1**	**14.5**	**17.4**	**17.2**	**20.9**	**22.2**
Chromium VI	mg/kg	6.3	1.2 U	**1.5**	1.1 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Cobalt	mg/kg	350	**4.6**	**5.3**	**4.9**	**3.7 J**	**3.7 J**	**4.4 J**	**4.5**	**6.8**	**5.1**
Copper	mg/kg	47,000	**3.3 J**	**20.6**	**6.5**	**7.5**	**6.7**	**8.6**	**8.2**	**16**	**9.8**
Iron	mg/kg	820,000	**7,010**	**15,600**	**17,800**	**25,500**	**13,300**	**18,100**	**17,900**	**13,500**	**19,400**
Lead	mg/kg	800	**7.7**	**49**	**7.5**	**7.8**	**8**	**9.5**	**8.9**	**57**	**11.3**
Manganese	mg/kg	26,000	**33.4**	**538**	**46.7**	**44.2**	**37**	**33.8**	**35.4**	**275**	**65.7**
Mercury	mg/kg	350	0.12 U	**1**	**0.11 J**	0.11 U	**0.012 J**	**0.02 J**	**0.011 J**	**0.08 J**	**0.038 J**
Nickel	mg/kg	22,000	**11.1**	**11.5**	**7.1 J**	**7.4 J**	**9.2**	**10.2**	**10.4**	**11.6**	**11.8**
Selenium	mg/kg	5,800	3.6 U	4.2 U	3.6 U	3.7 U	3.6 U	3.7 U	3.6 U	3.7 U	3.7 U
Silver	mg/kg	5,800	2.7 U	3.1 U	2.7 U	2.7 U	2.7 U	2.8 U	2.7 U	2.8 U	2.8 U
Vanadium	mg/kg	5,800	**15.5**	**41**	**26.1**	**27.8**	**20.5**	**25**	**25.3**	**35.3**	**33.2**
Zinc	mg/kg	350,000	**28.8**	**173**	**27.6**	**24.7**	**27.6**	**31.5**	**32**	**123**	**40.2**
Other											
Cyanide	mg/kg	150	0.98 U	**0.16 J**	1.2 U	1.2 U	1.1 U	1.2 U	1.2 U	**0.13 J**	1.2 U

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B25-009-SB-4.5 10/19/2018	B25-010-SB-1 10/19/2018	B25-010-SB-2 10/19/2018	B25-010-SB-5 10/19/2018	B25-010-SB-10* 10/19/2018	B25-011-SB-1* 10/18/2018	B25-011-SB-2* 10/18/2018	B25-011-SB-4* 10/18/2018
Metal										
Aluminum	mg/kg	1,100,000	**12,100**	**8,380**	**8,660**	**14,400**	N/A	**7,550**	**14,500**	**16,900**
Antimony	mg/kg	470	2.7 UJ	3 UJ	2.7 UJ	2.8 UJ	N/A	2.6 U	2.7 U	2.8 U
Arsenic	mg/kg	3	**2.4**	**10.5**	2.3 U	**5.2**	**29.2**	**3.9**	**5.7**	**8.6**
Barium	mg/kg	220,000	**23.8**	**70.4**	**50.4**	**34**	N/A	**58.7**	**36**	**18.7**
Beryllium	mg/kg	2,300	**0.25 J**	**0.64 J**	**0.62 J**	**0.4 J**	N/A	**0.46 J**	**0.61 J**	**0.73 J**
Cadmium	mg/kg	980	1.4 U	**0.59 J**	1.4 U	1.4 U	N/A	**0.29 J**	**0.33 J**	1.4 U
Chromium	mg/kg	120,000	**11.6**	**59.5**	**11.5**	**26.2**	N/A	**18.4**	**24.3**	**30**
Chromium VI	mg/kg	6.3	**0.63 J**	1.3 U	1.2 U	1.2 U	N/A	1.1 U	1.2 U	**0.72 J**
Cobalt	mg/kg	350	**3.3 J**	**7.7**	**9.8**	**2.8 J**	N/A	**6.9**	**5.5**	**6.2**
Copper	mg/kg	47,000	**6.1**	**32.4**	**8.8**	**7.8**	N/A	**110**	**10.5**	**8.8**
Iron	mg/kg	820,000	**9,890**	**17,500**	**8,940**	**17,500**	N/A	**24,600**	**18,400**	**22,900**
Lead	mg/kg	800	**7.3**	**72.6**	**17.8**	**10.9**	N/A	**105**	**14.3**	**12**
Manganese	mg/kg	26,000	**41.4**	**1,090**	**300**	**43.3**	N/A	**204**	**60.2**	**64.2**
Mercury	mg/kg	350	0.12 U	**0.15**	**0.077 J**	**0.0099 J**	N/A	**0.11 J**	**0.073 J**	0.12 U
Nickel	mg/kg	22,000	**8.5 J**	**14.4**	**11.1**	**7.8 J**	N/A	**16.2**	**11.7**	**14**
Selenium	mg/kg	5,800	3.6 U	3.9 U	3.7 U	3.7 U	N/A	3.5 U	3.6 U	3.7 U
Silver	mg/kg	5,800	2.7 U	3 U	2.7 U	2.8 U	N/A	2.6 U	2.7 U	2.8 U
Vanadium	mg/kg	5,800	**19.3**	**106**	**17.9**	**35.8**	N/A	**46.5**	**36.3**	**38.6**
Zinc	mg/kg	350,000	**22.8**	**234**	**44.3**	**25.1**	N/A	**127**	**38.4**	**39.8**
Other										
Cyanide	mg/kg	150	1.1 U	**0.19 J**	1.2 U	1 U	N/A	0.89 U	1.2 U	1.2 U

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B25-011-SB-10* 10/18/2018	B25-012-SB-1* 10/22/2018	B25-012-SB-2* 10/22/2018	B25-012-SB-5* 10/22/2018	B25-013-SB-1* 10/17/2018	B25-013-SB-2* 10/17/2018	B25-013-SB-6* 10/17/2018	B25-014-SB-1* 10/22/2018
Metal										
Aluminum	mg/kg	1,100,000	N/A	**10,100**	**14,700**	**10,500**	**11,400**	**16,200**	**18,800**	**7,960**
Antimony	mg/kg	470	N/A	2.9 U	2.8 U	2.8 U	2.8 U	2.7 U	2.8 U	2.5 U
Arsenic	mg/kg	3	**10.3**	**13.9**	**5.1**	**2.9**	**5.6**	**4.9**	**6.4**	**3.9**
Barium	mg/kg	220,000	N/A	**55.2**	**52.8**	**37.4**	**170**	**43.9**	**46.2**	**197**
Beryllium	mg/kg	2,300	N/A	**0.59 J**	**0.65 J**	**0.35 J**	**0.85 J**	**0.65 J**	**0.68 J**	**0.47 J**
Cadmium	mg/kg	980	N/A	**0.51 J**	1.4 U	1.4 U	**0.6 J**	1.3 U	1.4 U	**0.54 J**
Chromium	mg/kg	120,000	N/A	**27.8**	**21.3**	**17.3**	**120**	**26.1**	**67.3**	**38.3**
Chromium VI	mg/kg	6.3	N/A	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U
Cobalt	mg/kg	350	N/A	**8.3**	**5.5**	**4.9**	**6.7**	**6.6**	**6.2**	**2.9 J**
Copper	mg/kg	47,000	N/A	**19.3**	**7.9**	**4.2 J**	**26.2**	**12.6**	**8.3**	**25.9**
Iron	mg/kg	820,000	N/A	**16,500**	**17,400**	**9,620**	**30,600**	**25,900**	**20,000**	**13,500**
Lead	mg/kg	800	N/A	**48.3**	**9.9**	**7.9**	**66.7**	**13.2**	**12.1**	**58.3**
Manganese	mg/kg	26,000	N/A	**470**	**75.9**	**68.3**	**4,070**	**168**	**99.6**	**782**
Mercury	mg/kg	350	N/A	**0.1 J**	0.12 U	0.11 U	**0.078 J**	0.11 U	0.11 U	**0.15**
Nickel	mg/kg	22,000	N/A	**13.3**	**13.1**	**10.5**	**15.5**	**13.3**	**64.4**	**8.8**
Selenium	mg/kg	5,800	N/A	3.8 U	3.7 U	3.7 U	3.7 U	3.6 U	3.7 U	3.3 U
Silver	mg/kg	5,800	N/A	2.9 U	2.8 U	2.8 U	2.8 U	2.7 U	2.8 U	2.5 U
Vanadium	mg/kg	5,800	N/A	**45.2**	**30.2**	**16.8**	**189**	**36.4**	**39.7**	**56.4**
Zinc	mg/kg	350,000	N/A	**147**	**36.9**	**29.2**	**300**	**38.4**	**27**	**108**
Other										
Cyanide	mg/kg	150	N/A	1.1 U	0.99 U	1.1 U	**0.25 J**	1.1 U	1.2 U	1.1 U

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B25-014-SB-2*	B25-014-SB-9*	B7-001-SB-1*	B7-001-SB-2*	B7-001-SB-5*	B7-002-SB-1*	B7-002-SB-2*	B7-002-SB-9*	B7-002-SB-10
			10/22/2018	10/22/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018
Metal											
Aluminum	mg/kg	1,100,000	**20,800**	**40,400**	**5,860**	**6,510**	**4,960**	**8,300**	**14,800**	**21,500**	N/A
Antimony	mg/kg	470	2.5 U	2.5 U	2.5 U	2.6 U	2.6 U	2.4 U	2.6 U	2.8 U	N/A
Arsenic	mg/kg	3	**6.3**	**2.9**	**9.2**	**12.4**	2.2 U	**9.5**	**5.7**	**14.1**	**13.4**
Barium	mg/kg	220,000	**196**	**409**	**63.4**	**174**	**13.2**	**85**	**38.7**	**97.4**	N/A
Beryllium	mg/kg	2,300	**2.7**	**5.5**	**0.42 J**	**0.27 J**	0.88 U	**0.64 J**	**0.45 J**	**1.7**	N/A
Cadmium	mg/kg	980	**0.72 J**	**0.44 J**	1.3 U	**0.76 J**	1.3 U	1.2 U	1.3 U	1.4 U	N/A
Chromium	mg/kg	120,000	**583**	**14.8**	**903**	**844**	**5.3**	**1,040**	**33.2**	**45.5**	N/A
Chromium VI	mg/kg	6.3	1.1 U	1.1 U	**0.77 J**	1.1 U	1.1 U	**0.7 J**	1.1 U	**0.65 J**	N/A
Cobalt	mg/kg	350	**4.1 J**	**2.6 J**	**5.3**	**6.1**	**2.8 J**	**8.3**	**5.8**	**8**	N/A
Copper	mg/kg	47,000	**25.3**	**17.5**	**60.5**	**84**	4.4 U	**292**	**8.3**	**29.4**	N/A
Iron	mg/kg	820,000	**100,000**	**12,000**	**215,000**	**189,000**	**3,670**	**223,000**	**21,800**	**53,200**	N/A
Lead	mg/kg	800	**48.8**	**34.9**	**63.5**	**291**	**3.9**	**281**	**15.8**	**22.9**	N/A
Manganese	mg/kg	26,000	**17,000**	**3,330**	**22,500**	**20,200**	**39.4**	**19,500**	**287**	**177**	N/A
Mercury	mg/kg	350	**0.033 J**	**0.015 J**	**0.021 J**	**0.41**	**0.0073 J**	**0.035 J**	**0.019 J**	0.13 U	N/A
Nickel	mg/kg	22,000	**12.3**	**5.1 J**	**26.7**	**39.2**	**3.1 J**	**54.9**	**12.6**	**19.5**	N/A
Selenium	mg/kg	5,800	3.3 U	3.3 U	3.4 U	3.5 U	3.5 U	3.3 U	3.5 U	3.8 U	N/A
Silver	mg/kg	5,800	2.5 U	2.5 U	2.5 U	2.6 U	2.6 U	2.4 U	2.6 U	2.8 U	N/A
Vanadium	mg/kg	5,800	**1,280**	**40.6**	**2,410**	**471**	**14.2**	**1,790**	**43.1**	**57.5**	N/A
Zinc	mg/kg	350,000	**245**	**58.2**	**142**	**414**	**8.4**	**180**	**37.8**	**80.3**	N/A
Other											
Cyanide	mg/kg	150	**0.5 J**	**0.66 J**	**0.45 J**	**1.5**	1.1 U	**0.49 J**	1.1 U	1.3 U	N/A

Detections in bold
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J-: The positive result reported for this analyte is a quantitative estimate, but may be biased low.
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B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-003-SB-1* 10/2/2018	B7-003-SB-2* 10/2/2018	B7-003-SB-6* 10/2/2018	B7-003-SB-10 10/2/2018	B7-004-SB-1* 10/31/2018	B7-004-SB-5* 10/31/2018	B7-004-SB-10* 10/31/2018	B7-005-SB-1 10/30/2018	B7-005-SB-5 10/30/2018
Metal											
Aluminum	mg/kg	1,100,000	**12,100**	**14,200**	**19,800**	N/A	**16,200**	**16,500**	N/A	**10,600**	**12,400**
Antimony	mg/kg	470	2.6 U	2.5 U	**10.3**	N/A	2.8 U	2.7 U	N/A	2.4 UJ	2.8 UJ
Arsenic	mg/kg	3	**19.9**	**11.4**	**7.3**	**12.2**	**10.8**	**6.4**	2.3 U	2 U	**5.4**
Barium	mg/kg	220,000	**142**	**176**	**103**	N/A	**127**	**52.8**	N/A	**71.4 J**	**108 J**
Beryllium	mg/kg	2,300	**1.5**	**1.3**	**0.98**	N/A	**1.1**	**0.96**	N/A	**0.16 J**	**0.92 J**
Cadmium	mg/kg	980	1.3 U	1.3 U	1.4 U	N/A	**1.1 J**	1.3 U	N/A	1.2 U	1.4 U
Chromium	mg/kg	120,000	**379**	**1,270**	**43.9**	N/A	**54.6**	**29**	N/A	**34.8 J**	**24.4 J**
Chromium VI	mg/kg	6.3	1.1 U	1.1 U	1.2 U	N/A	1.2 U	1.1 U	N/A	1 UJ	1.2 UJ
Cobalt	mg/kg	350	**32.9**	**9**	**16.6**	N/A	**10.3**	**7.7**	N/A	**5.8**	**6.4**
Copper	mg/kg	47,000	**191**	**133**	**27.9**	N/A	**39.3**	**13.4**	N/A	**15 J**	**21.4 J**
Iron	mg/kg	820,000	**299,000**	**158,000**	**27,200**	N/A	**29,400**	**23,100**	N/A	**18,600**	**18,500**
Lead	mg/kg	800	**79.1**	**32**	**52.1**	N/A	**150**	**31.5**	N/A	**3.2**	**64.2**
Manganese	mg/kg	26,000	**9,650**	**58,700**	**773**	N/A	**1,240**	**242**	N/A	**358**	**238**
Mercury	mg/kg	350	**0.028 J**	**0.019 J**	**2.6**	N/A	**0.24**	**0.057 J**	N/A	0.097 U	**0.035 J**
Nickel	mg/kg	22,000	**97.4**	**73.5**	**32.9**	N/A	**18.6**	**15.4**	N/A	**12**	**10.5**
Selenium	mg/kg	5,800	3.5 U	3.4 U	3.7 U	N/A	3.7 U	3.5 U	N/A	3.2 U	3.7 U
Silver	mg/kg	5,800	2.6 U	2.5 U	2.8 U	N/A	2.8 U	2.7 U	N/A	2.4 U	2.8 U
Vanadium	mg/kg	5,800	**558**	**4,020**	**48.7**	N/A	**111**	**43.4**	N/A	**30.3**	**39.3**
Zinc	mg/kg	350,000	**207**	**68.1**	**91.2**	N/A	**359**	**75.9**	N/A	**54**	**151**
Other											
Cyanide	mg/kg	150	**0.34 J**	**0.14 J**	**0.25 J**	N/A	1.1 U	1 U	N/A	**0.12 J**	1 U

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

Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-005-SB-10*	B7-006-SB-1*	B7-006-SB-5*	B7-007-SB-1	B7-007-SB-5	B7-007-SB-10	B7-008-SB-1*	B7-008-SB-4*	B7-009-SB-1*
			10/30/2018	10/31/2018	10/31/2018	3/7/2019	3/7/2019	3/7/2019	3/8/2019	3/8/2019	10/5/2018
Metal											
Aluminum	mg/kg	1,100,000	N/A	**14,900**	**17,400**	**6,830**	**11,100**	N/A	**5,970**	**8,960**	**8,320**
Antimony	mg/kg	470	N/A	2.9 U	2.8 U	2.4 UJ	2.8 UJ	N/A	2.7 U	2.8 U	2.4 U
Arsenic	mg/kg	3	**6.8**	**3.8**	**18.4**	**2.1**	**3.5**	**3.6**	**3.2**	**4.1**	**7.8**
Barium	mg/kg	220,000	N/A	**77.7**	**123**	**20.2 J**	**102 J**	N/A	**31.9**	**45.7**	**71.7**
Beryllium	mg/kg	2,300	N/A	**0.79 J**	**3**	0.81 U	**0.74 J**	N/A	0.9 U	**0.53 J**	**0.48 J**
Cadmium	mg/kg	980	N/A	**0.38 J**	1.4 U	1.2 U	1.4 U	N/A	1.3 U	1.4 U	**0.74 J**
Chromium	mg/kg	120,000	N/A	**26.7**	**35.6**	**27.6**	**22.4**	N/A	**14.2**	**16.9**	**150**
Chromium VI	mg/kg	6.3	N/A	1.2 U	1.2 U	1 R	1.2 R	N/A	1.2 U	1.2 U	1.1 U
Cobalt	mg/kg	350	N/A	**8.8**	**60.3**	**4.6**	**7.9**	N/A	**5.8**	**8.2**	**7.2**
Copper	mg/kg	47,000	N/A	**34.7**	**17.4**	**35.6**	**63.3**	N/A	**60.9**	**170**	**44**
Iron	mg/kg	820,000	N/A	**16,000**	**59,500**	**14,200 J**	**17,400 J**	N/A	**12,100**	**14,900**	**30,100**
Lead	mg/kg	800	N/A	**66.5**	**39.1**	**2.3 J**	**37.6 J**	N/A	**13.6**	**29.5**	**150**
Manganese	mg/kg	26,000	N/A	**393**	**6,290**	**232**	**394**	N/A	**214**	**250**	**1,740**
Mercury	mg/kg	350	N/A	**0.093 J**	**0.051 J**	0.11 U	**0.025 J**	N/A	0.12 U	0.12 U	**0.1 J**
Nickel	mg/kg	22,000	N/A	**14.1**	**14.9**	**14.3**	**16.3**	N/A	**12.6**	**13.7**	**18.4**
Selenium	mg/kg	5,800	N/A	3.8 U	3.7 U	3.2 U	3.7 U	N/A	3.6 U	3.7 U	3.2 U
Silver	mg/kg	5,800	N/A	2.9 U	2.8 U	2.4 U	2.8 U	N/A	2.7 U	2.8 U	2.4 U
Vanadium	mg/kg	5,800	N/A	**40.6**	**72.1**	**29 J**	**27.7 J**	N/A	**21.9**	**25.8**	**168**
Zinc	mg/kg	350,000	N/A	**129**	**106**	**27.8**	**92.3**	N/A	**54.6**	**160**	**779**
Other											
Cyanide	mg/kg	150	N/A	1.1 U	1.2 U	0.88 UJ	**0.15 J-**	N/A	1 U	1.2 U	**0.19 J**

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-009-SB-7* 10/5/2018	B7-009-SB-10* 10/4/2018	B7-010-SB-1* 10/8/2018	B7-010-SB-5* 10/8/2018	B7-011-SB-1* 10/5/2018	B7-011-SB-6* 10/5/2018	B7-011-SB-10* 10/4/2018	B7-012-SB-1* 9/18/2019	B7-012-SB-5* 9/18/2019
Metal											
Aluminum	mg/kg	1,100,000	**9,490**	N/A	**4,580**	**42,100**	**7,020**	**15,500**	N/A	**13,700**	**20,300**
Antimony	mg/kg	470	2.8 U	N/A	2.5 U	2.8 U	2.5 U	2.8 U	N/A	2.6 U	2.5 U
Arsenic	mg/kg	3	**4.2**	**20.3**	**10.2**	2.4 U	**10.2**	**5.5**	**9.9**	**5.9**	**2.9**
Barium	mg/kg	220,000	**22.5**	N/A	**65.4**	**392**	**104**	**32**	N/A	**71.4**	**152**
Beryllium	mg/kg	2,300	**0.44 J**	N/A	**0.51 J**	**6.3**	**0.93**	**0.58 J**	N/A	**0.59 J**	**2.8**
Cadmium	mg/kg	980	1.4 U	N/A	1.2 U	1.4 U	1.2 U	1.4 U	N/A	1.3 U	1.2 U
Chromium	mg/kg	120,000	**17.3**	N/A	**918**	**37.5**	**693**	**21.9**	N/A	**96**	**56.3**
Chromium VI	mg/kg	6.3	**0.93 J**	N/A	1.1 U	1.2 U	1.1 U	1.2 U	N/A	1.1 U	**0.69 J**
Cobalt	mg/kg	350	**3.3 J**	N/A	**5.5**	**1.1 J**	**9.8**	**5.5**	N/A	**5.2**	**7.9**
Copper	mg/kg	47,000	**6.5**	N/A	**42.4**	**5.2**	**69.6**	**10.2**	N/A	**15.3**	**14.5**
Iron	mg/kg	820,000	**14,600**	N/A	**264,000**	**13,000**	**213,000**	**18,700**	N/A	**20,200**	**18,500**
Lead	mg/kg	800	**6.9**	N/A	**90.3**	**14**	**258**	**11.4**	N/A	**30.7**	**19**
Manganese	mg/kg	26,000	**61.2**	N/A	**24,300**	**2,700**	**18,700**	**196**	N/A	**1,000**	**2,150**
Mercury	mg/kg	350	**0.028 J**	N/A	**0.011 J**	0.12 U	**0.039 J**	**0.012 J**	N/A	**0.089 J**	**0.053 J**
Nickel	mg/kg	22,000	**8.7 J**	N/A	**39.3**	**3.7 J**	**80.2**	**11.5**	N/A	**13.2**	**9.4**
Selenium	mg/kg	5,800	3.7 U	N/A	3.3 U	**5.4**	3.3 U	3.7 U	N/A	3.4 U	3.3 U
Silver	mg/kg	5,800	2.8 U	N/A	2.5 U	2.8 U	2.5 U	2.8 U	N/A	2.6 U	2.5 U
Vanadium	mg/kg	5,800	**22.1**	N/A	**1,020**	**31.5**	**1,380**	**33.7**	N/A	**47.1**	**35.9**
Zinc	mg/kg	350,000	**25.9**	N/A	**110**	**67.4**	**178**	**43.5**	N/A	**60.7**	**38.8**
Other											
Cyanide	mg/kg	150	1.2 U	N/A	**0.85 J**	**0.34 J**	**0.31 J**	1 U	N/A	0.88 U	**0.17 J**

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-013-SB-1* 9/18/2019	B7-013-SB-4* 9/18/2019	B7-014-SB-1* 10/1/2018	B7-014-SB-2* 10/1/2018	B7-014-SB-5* 10/1/2018	B7-014-SB-10* 10/1/2018	B7-015-SB-1* 10/1/2018	B7-015-SB-2* 10/1/2018	B7-015-SB-5* 10/1/2018
Metal											
Aluminum	mg/kg	1,100,000	**42,900**	**44,300**	**38,700**	**27,100**	**14,000**	**18,400**	**16,300**	**17,600**	**14,700**
Antimony	mg/kg	470	2.5 U	2.4 U	2.7 U	2.5 U	2.8 U	3.1 U	2.6 U	2.7 U	2.9 U
Arsenic	mg/kg	3	2.1 U	2 U	**3.3**	**22.1**	2.3 U	**7.5**	**11.4**	**9.3**	**7.7**
Barium	mg/kg	220,000	**332**	**346**	**422**	**406**	**50.7**	**64.4**	**277**	**353**	**87.5**
Beryllium	mg/kg	2,300	**7.7**	**7.7**	**4.2**	**2.4**	**0.58 J**	**1**	**1.3**	**1.9**	**0.69 J**
Cadmium	mg/kg	980	1.2 U	1.2 U	1.3 U	1.2 U	1.4 U	1.5 U	1.3 U	1.3 U	1.4 U
Chromium	mg/kg	120,000	**3.7**	**4.3**	**149**	**2,440**	**20.5**	**37.8**	**1,950**	**1,670**	**26.1**
Chromium VI	mg/kg	6.3	**0.54 J**	**0.56 J**	1.1 U	1.1 U	**0.65 J**	**1.2 J**	1.1 U	1.1 U	1.2 U
Cobalt	mg/kg	350	**0.68 J**	**0.81 J**	**9.9**	4.1 U	**6.5**	**7.8**	**3.1 J**	**1.6 J**	**9.5**
Copper	mg/kg	47,000	4.1 U	4 U	**50.6**	**35.8**	**8.1**	**14.5**	**44.1**	**38.4**	**8.6**
Iron	mg/kg	820,000	**7,350**	**6,300**	**110,000**	**98,200**	**12,900**	**32,400**	**138,000**	**124,000**	**23,600**
Lead	mg/kg	800	**3.2**	2 U	**87.3**	**9.1**	**9.3**	**12**	**30.9**	**22.9**	**11.7**
Manganese	mg/kg	26,000	**1,460**	**1,980**	**7,530**	**45,700**	**90.4**	**127**	**45,700**	**52,200**	**204**
Mercury	mg/kg	350	0.097 U	0.1 U	**0.011 J**	**0.0068 J**	0.11 U	0.12 U	**0.025 J**	0.11 U	**0.0076 J**
Nickel	mg/kg	22,000	8.2 U	8.1 U	**14**	**5.2 J**	**14.4**	**18.5**	**12**	**9.2**	**14.1**
Selenium	mg/kg	5,800	3.3 U	**2.6 J**	3.5 U	3.3 U	3.7 U	4.1 U	3.4 U	3.5 U	3.8 U
Silver	mg/kg	5,800	2.5 U	2.4 U	2.7 U	2.5 U	2.8 U	3.1 U	2.6 U	2.7 U	2.9 U
Vanadium	mg/kg	5,800	**9.9**	**13.4**	**244**	**1,850**	**22.8**	**41.1**	**3,130**	**3,410**	**35.6**
Zinc	mg/kg	350,000	2.7 B	4 U	**83.3**	**54.6**	**36.4**	**55.9**	**90.2**	**53.1**	**36.4**
Other											
Cyanide	mg/kg	150	**0.32 J**	**0.33 J**	**0.97**	**0.48 J**	0.95 U	1.3 U	**0.26 J**	**0.35 J**	1.1 U

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-015-SB-10* 10/1/2018	B7-016-SB-1* 9/18/2019	B7-016-SB-8* 9/18/2019	B7-016-SB-10* 9/18/2019	B7-017-SB-1* 9/18/2019	B7-017-SB-4* 9/18/2019	B7-017-SB-10* 9/18/2019	B7-018-SB-1* 10/5/2018	B7-018-SB-5* 10/5/2018
Metal											
Aluminum	mg/kg	1,100,000	**20,200**	**9,640**	**15,100**	N/A	**15,300**	**14,600**	N/A	**31,400**	**15,200**
Antimony	mg/kg	470	2.7 U	2.6 U	2.9 U	N/A	2.5 U	2.5 U	N/A	2.6 U	2.7 U
Arsenic	mg/kg	3	2.2 U	**4.4**	**6.4**	**4.9**	**6.2**	**4**	**3.1**	**3.2**	**6.5**
Barium	mg/kg	220,000	**62.9**	**40.2**	**75.8**	N/A	**126**	**42.7**	N/A	**421**	**42**
Beryllium	mg/kg	2,300	**0.72 J**	**0.35 J**	**0.8 J**	N/A	**1.3**	**0.45 J**	N/A	**4.2**	**0.49 J**
Cadmium	mg/kg	980	1.3 U	1.3 U	1.4 U	N/A	1.3 U	1.2 U	N/A	**0.57 J**	1.3 U
Chromium	mg/kg	120,000	**32.7**	**21.2**	**23.5**	N/A	**97.5**	**17.2**	N/A	**55**	**21.5**
Chromium VI	mg/kg	6.3	1.2 U	1.2 U	**0.62 J**	N/A	**0.69 J**	1.1 U	N/A	1.1 U	1.2 U
Cobalt	mg/kg	350	**10.3**	**3.3 J**	**12.3**	N/A	**6.7**	**2.8 J**	N/A	**6**	**5.5**
Copper	mg/kg	47,000	**9**	**11.6**	**11.9**	N/A	**24.2**	**7.7**	N/A	**28.6**	**8**
Iron	mg/kg	820,000	**15,700**	**14,700**	**17,300**	N/A	**72,700**	**15,900**	N/A	**32,300**	**19,500**
Lead	mg/kg	800	**10.6**	**19.4**	**13**	N/A	**27.3**	**10**	N/A	**49.9**	**11.5**
Manganese	mg/kg	26,000	**150**	**97.8**	**95.4**	N/A	**2,310**	**37.8**	N/A	**3,120**	**168**
Mercury	mg/kg	350	0.12 U	**0.071 J**	0.12 U	N/A	**0.027 J**	**0.02 J**	N/A	**0.013 J**	**0.08 J**
Nickel	mg/kg	22,000	**18.5**	**7.6 J**	**13.6**	N/A	**13.6**	**7.4 J**	N/A	**21.5**	**12.3**
Selenium	mg/kg	5,800	3.5 U	3.5 U	3.9 U	N/A	3.4 U	3.3 U	N/A	3.4 U	3.6 U
Silver	mg/kg	5,800	2.7 U	2.6 U	2.9 U	N/A	2.5 U	2.5 U	N/A	2.6 U	2.7 U
Vanadium	mg/kg	5,800	**31.8**	**26.1**	**40.8**	N/A	**130**	**30.5**	N/A	**104**	**35.6**
Zinc	mg/kg	350,000	**54.9**	**37.5**	**33.9**	N/A	**69.5**	**24.5**	N/A	**165**	**35.1**
Other											
Cyanide	mg/kg	150	0.93 U	**0.14 J**	1.1 U	N/A	**0.43 J**	**0.15 J**	N/A	**0.58 J**	1.2 U

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

Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-019-SB-1* 10/5/2018	B7-019-SB-8* 10/5/2018	B7-020-SB-1.5* 3/8/2019	B7-020-SB-5* 3/8/2019	B7-020-SB-10* 3/8/2019	B7-021-SB-1* 3/8/2019	B7-021-SB-4* 3/8/2019	B7-022-SB-1.5 10/30/2018	B7-022-SB-5 10/30/2018
Metal											
Aluminum	mg/kg	1,100,000	**25,100**	**14,500**	**11,400**	**11,500**	N/A	**15,600**	**8,460**	**8,160**	**12,600**
Antimony	mg/kg	470	2.6 U	2.8 U	2.6 U	2.8 U	N/A	2.5 U	2.8 U	2.7 UJ	2.8 UJ
Arsenic	mg/kg	3	**3.8**	**8.4**	**4.1**	**4.1**	**3.5**	2.1 U	**4**	**2.8**	2.3 U
Barium	mg/kg	220,000	**380**	**40.3**	**69**	**59.3**	N/A	**81.6**	**53.8**	**50 J**	**101 J**
Beryllium	mg/kg	2,300	**2.8**	**0.82 J**	**0.61 J**	**0.7 J**	N/A	**0.21 J**	**0.43 J**	**0.58 J**	**1**
Cadmium	mg/kg	980	**0.4 J**	1.4 U	1.3 U	1.4 U	N/A	1.3 U	1.4 U	1.3 U	1.4 U
Chromium	mg/kg	120,000	**194**	**17.9**	**35.1**	**23**	N/A	**47.9**	**88.1**	**19.2 J**	**20.4 J**
Chromium VI	mg/kg	6.3	1.1 U	1.2 U	1.2 U	1.2 U	N/A	1.1 U	1.2 U	1.1 UJ	1.1 UJ
Cobalt	mg/kg	350	**5.8**	**6.4**	**10.6**	**6.9**	N/A	**13.4**	**7.7**	**5.6**	**5.7**
Copper	mg/kg	47,000	**29.9**	**8.3**	**71.7**	**72.7**	N/A	**56.3**	**57.2**	**39.4 J**	**14.8 J**
Iron	mg/kg	820,000	**32,900**	**37,000**	**20,400**	**16,800**	N/A	**31,900**	**15,800**	**13,800**	**15,700**
Lead	mg/kg	800	**52.3**	**10.4**	**39.4**	**35**	N/A	**4.9**	**45.9**	**18.1**	**16**
Manganese	mg/kg	26,000	**4,730**	**44.8**	**369**	**201**	N/A	**546**	**217**	**202**	**113**
Mercury	mg/kg	350	**0.046 J**	0.12 U	**0.044 J**	**0.036 J**	N/A	0.1 U	**0.042 J**	**0.0072 J**	**0.011 J**
Nickel	mg/kg	22,000	**21.1**	**11.3**	**18.9**	**14.2**	N/A	**17.3**	**17.9**	**10**	**9.6**
Selenium	mg/kg	5,800	**2.6 J**	3.7 U	3.5 U	3.7 U	N/A	3.3 U	3.7 U	3.6 U	3.7 U
Silver	mg/kg	5,800	2.6 U	2.8 U	2.6 U	2.8 U	N/A	2.5 U	2.8 U	2.7 U	2.8 U
Vanadium	mg/kg	5,800	**191**	**21.5**	**32.5**	**32.4**	N/A	**53.9**	**30.9**	**23.3**	**27.4**
Zinc	mg/kg	350,000	**152**	**33.4**	**81**	**104**	N/A	**84.9**	**81.3**	**55.4**	**58**
Other											
Cyanide	mg/kg	150	**1.9**	1 U	0.92 U	1.1 U	N/A	0.97 U	**0.13 J**	1.1 U	0.99 U

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-023-SB-1.5	B7-023-SB-5	B7-024-SB-1*	B7-024-SB-4*	B7-025-SB-1*	B7-025-SB-4*	B7-026-SD	B7-027-SD	B7-028-SB-1	B7-028-SB-2
			10/30/2018	10/30/2018	3/8/2019	3/8/2019	3/8/2019	3/8/2019	10/30/2018	10/30/2018	10/4/2018	10/4/2018
Metal												
Aluminum	mg/kg	1,100,000	**12,100**	**53,300**	**9,460**	**10,900**	**13,300**	**16,600**	**13,300**	**13,700**	**30,000**	**17,200**
Antimony	mg/kg	470	2.5 UJ	2.7 UJ	2.7 U	2.7 U	2.5 U	3.1 U	3.2 UJ	3.7 UJ	2.6 UJ	2.8 UJ
Arsenic	mg/kg	3	**3.5**	**4.3**	**4.9**	**4.7**	2.1 U	**17.1**	**5.2**	**6.6**	**5.2**	**7.1**
Barium	mg/kg	220,000	**78.6 J**	**286 J**	**66.3**	**64.1**	**68.1**	**53.1**	**74.6 J**	**97.8 J**	**337 J**	**61.6 J**
Beryllium	mg/kg	2,300	**0.74 J**	**2.2**	**0.63 J**	**0.79 J**	**0.21 J**	**0.59 J**	**0.62 J**	**0.72 J**	**3.9**	**0.74 J**
Cadmium	mg/kg	980	1.3 U	1.4 U	1.3 U	1.3 U	1.2 U	**2.1**	**0.4 J**	**1 J**	1.3 U	1.4 U
Chromium	mg/kg	120,000	**26.4 J**	**482 J**	**20.2**	**18.4**	**45.8**	**44.4**	**33.2 J**	**66.9 J**	**122**	**23.2**
Chromium VI	mg/kg	6.3	1.1 UJ	1.2 UJ	1.1 U	1.2 U	1 U	1.4 U	1.3 UJ	1.6 UJ	1.1 UJ	1.2 UJ
Cobalt	mg/kg	350	**5.6**	**51.5**	**9.1**	**9.1**	**8.2**	**25.8**	**5.8**	**10**	**6.1**	**3.8 J**
Copper	mg/kg	47,000	**24.6 J**	**24.7 J**	**59.9**	**88.2**	**44**	**16.8**	**27.3 J**	**52.9 J**	**26.7**	**12.6**
Iron	mg/kg	820,000	**18,000**	**42,000**	**16,600**	**19,700**	**23,600**	**18,100**	**17,900**	**25,100**	**56,300**	**17,100**
Lead	mg/kg	800	**25.7**	**23**	**59.1**	**31.2**	**5**	**25.7**	**54.7**	**76.6**	**43 J**	**14.9 J**
Manganese	mg/kg	26,000	**303**	**2,150**	**250**	**289**	**452**	**82.8**	**349**	**897**	**6,310**	**70.8**
Mercury	mg/kg	350	**0.029 J**	**0.0094 J**	**0.058 J**	**0.48**	0.1 U	0.13 U	**0.097 J**	**0.11 J**	**0.04 J**	0.12 U
Nickel	mg/kg	22,000	**13**	**476**	**16.8**	**15.8**	**15.4**	**31.6**	**20.7**	**26.4**	**16.4**	**9.4**
Selenium	mg/kg	5,800	3.3 U	**3 J**	3.6 U	3.6 U	3.3 U	4.1 U	4.2 U	4.9 U	**2.7 J**	3.7 U
Silver	mg/kg	5,800	2.5 U	2.7 U	2.7 U	2.7 U	2.5 U	3.1 U	3.2 U	3.7 U	2.6 U	2.8 U
Vanadium	mg/kg	5,800	**28.7**	**35.3**	**28.1**	**25.7**	**39.4**	**42.8**	**44.9**	**69.3**	**252 J**	**30.3 J**
Zinc	mg/kg	350,000	**67.4**	**37.3**	**93.4**	**86.7**	**63.8**	**118**	**162**	**363**	**140**	**23.3**
Other												
Cyanide	mg/kg	150	**0.17 J**	**1.2**	0.96 U	1.1 U	0.96 U	1.3 U	**0.25 J**	**0.24 J**	**0.38 J**	1.1 U

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-029-SB-1* 10/5/2018	B7-029-SB-2* 10/5/2018	B7-029-SB-5* 10/5/2018	B7-030-SB-1 10/3/2018	B7-030-SB-2 10/3/2018	B7-031-SB-1* 10/8/2018	B7-031-SB-2* 10/8/2018	B7-031-SB-5* 10/8/2018	B7-032-SB-1* 12/21/2020
Metal											
Aluminum	mg/kg	1,100,000	**10,200**	**14,600**	**18,300**	**8,080**	**11,400**	**10,700**	**18,100**	**11,500**	**8,410**
Antimony	mg/kg	470	3 U	2.8 U	2.8 U	2.6 UJ	2.6 UJ	3.2 U	2.9 U	2.7 U	3.1 U
Arsenic	mg/kg	3	**3.8**	**2.9**	**4.6**	**4.6**	**9.8**	**9.8**	**10.3**	**20.5**	**6.3**
Barium	mg/kg	220,000	**83.3**	**64.7**	**40.2**	**80.2 J**	**108 J**	**77.2**	**65.2**	**34.9**	**61.5**
Beryllium	mg/kg	2,300	**0.41 J**	**0.42 J**	**1.3**	**0.31 J**	**0.76 J**	**0.62 J**	**0.68 J**	**0.54 J**	**1.2**
Cadmium	mg/kg	980	1.5 U	1.4 U	1.4 U	1.3 U	**0.65 J**	**0.51 J**	1.4 U	1.4 U	**1.2 J**
Chromium	mg/kg	120,000	**17.8**	**16.2**	**23.3**	**1,060 J**	**572 J**	**37.3**	**26.2**	**13.3**	**38.6**
Chromium VI	mg/kg	6.3	**2.1**	1.2 U	1.2 U	**3**	1.1 U	1.3 U	1.2 U	1.2 U	1.3 U
Cobalt	mg/kg	350	**5.2**	**3.4 J**	**3.6 J**	**1.3 J**	**6.9**	**8.4**	**5.5**	**2.5 J**	**8.9**
Copper	mg/kg	47,000	**18.3**	**5.8**	**8.7**	**28.6**	**93.1**	**28.2**	**14**	**5**	**36**
Iron	mg/kg	820,000	**11,900**	**15,800**	**18,300**	**122,000**	**124,000**	**22,300**	**25,800**	**15,900**	**26,900**
Lead	mg/kg	800	**45.9**	**10.7**	**16.6**	**31.6 J**	**69.7 J**	**95.1**	**21**	**8.9**	**107**
Manganese	mg/kg	26,000	**285**	**39**	**24.4**	**28,000 J**	**13,000 J**	**651**	**79.3**	**29.4**	**322**
Mercury	mg/kg	350	**0.12 J**	**0.017 J**	0.12 U	**0.064 J**	**0.18**	**0.1 J**	**0.022 J**	0.11 U	**0.095 J**
Nickel	mg/kg	22,000	**9.4 J**	**7.4 J**	**8.7 J**	**16.9**	**41.5**	**20.1**	**15.1**	**7.3 J**	**22.9**
Selenium	mg/kg	5,800	4 U	3.8 U	3.8 U	3.5 U	3.5 U	4.3 U	3.8 U	3.6 U	4.1 U
Silver	mg/kg	5,800	3 U	2.8 U	2.8 U	2.6 U	2.6 U	3.2 U	2.9 U	2.7 U	3.1 U
Vanadium	mg/kg	5,800	**33.9**	**24.4**	**30.5**	**1,110**	**539**	**64.6**	**40.4**	**24.7**	**44.5**
Zinc	mg/kg	350,000	**109**	**28.9**	**19.5**	**87.5**	**231**	**267**	**61.2**	**16.2**	**203**
Other											
Cyanide	mg/kg	150	1.2 U	1.1 U	1.1 U	**0.35 J**	**0.56 J**	**0.16 J**	**0.17 J**	0.98 U	**0.27 J**

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-032-SB-2* 12/21/2020	B7-032-SB-5* 12/21/2020	B7-033-SB-1 10/4/2018	B7-033-SB-2 10/4/2018	B7-033-SB-5 10/4/2018	B7-034-SB-1* 10/2/2018	B7-034-SB-2* 10/2/2018	B7-034-SB-7* 10/2/2018	B7-035-SB-1* 10/5/2018
Metal											
Aluminum	mg/kg	1,100,000	**11,100**	**21,200**	**12,600**	**13,200**	**14,000**	**20,000**	**15,100**	**16,400**	**12,200**
Antimony	mg/kg	470	2.8 U	2.9 U	2.8 UJ	2.8 UJ	2.7 UJ	2.8 U	2.8 U	2.7 U	3.1 U
Arsenic	mg/kg	3	**5.4**	**6.4**	**7.7**	**8.6**	**3.6**	**3.1**	**3.4**	**4.1**	**7.2**
Barium	mg/kg	220,000	**78.5**	**83.5**	**77.7 J**	**73.8 J**	**48.3 J**	**222**	**115**	**67.9**	**70.6**
Beryllium	mg/kg	2,300	**0.52 J**	**1**	**0.67 J**	**0.73 J**	**0.56 J**	**1.4**	**0.77 J**	**0.57 J**	**0.67 J**
Cadmium	mg/kg	980	**0.44 J**	1.4 U	1.4 U	1.4 U	1.3 U	**0.48 J**	1.4 U	1.3 U	1.5 U
Chromium	mg/kg	120,000	**22.6**	**24.9**	**22.4**	**42.2**	**19.5**	**28**	**30.2**	**20.1**	**25.8**
Chromium VI	mg/kg	6.3	1.2 U	1.2 U	1.2 UJ	1.2 UJ	1.2 UJ	1.2 U	1.2 U	1.2 U	1.3 U
Cobalt	mg/kg	350	**5.7**	**5.4**	**11.4**	**8.3**	**11.6**	**5.2**	**5.7**	**5**	**8.5**
Copper	mg/kg	47,000	**20.4**	**10.4**	**13.9**	**19.5**	**5.8**	**16.8**	**13.7**	**4.4 J**	**21.2**
Iron	mg/kg	820,000	**14,900**	**16,300**	**16,100**	**25,900**	**16,500**	**14,400**	**14,600**	**14,100**	**16,900**
Lead	mg/kg	800	**66.4**	**15.7**	**38.2 J**	**86.8 J**	**16.4 J**	**37.1**	**31.7**	**9.7**	**55**
Manganese	mg/kg	26,000	**237**	**54.4**	**592**	**536**	**96.5**	**1,650**	**584**	**25.2**	**455**
Mercury	mg/kg	350	**0.11 J**	0.12 U	**0.16**	**1.4**	**0.074 J**	**0.14**	**0.91**	0.12 U	**0.6**
Nickel	mg/kg	22,000	**12.6**	**14.6**	**14.1**	**16.1**	**13.9**	**21.2**	**19.8**	**11**	**14.7**
Selenium	mg/kg	5,800	3.7 U	3.9 U	3.7 U	**2.7 J**	3.5 U	3.8 U	3.7 U	3.6 U	4.1 U
Silver	mg/kg	5,800	2.8 U	2.9 U	2.8 U	2.8 U	2.7 U	2.8 U	2.8 U	2.7 U	3.1 U
Vanadium	mg/kg	5,800	**32.5**	**30.5**	**37.5 J**	**76 J**	**31.4 J**	**72.1**	**46.3**	**25.1**	**46.4**
Zinc	mg/kg	350,000	**165**	**26.3**	**99.6**	**128**	**45.8**	**77.2**	**63.9**	**25.8**	**163**
Other											
Cyanide	mg/kg	150	**0.18 J**	1.3 U	1.2 U	**0.24 J+**	1 U	**0.15 J**	1.2 U	1.1 U	1.2 U

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-035-SB-2* 10/5/2018	B7-035-SB-5* 10/5/2018	B7-036-SB-1 10/4/2018	B7-036-SB-2 10/4/2018	B7-036-SB-5 10/4/2018	B7-037-SB-1* 10/5/2018	B7-037-SB-2* 10/5/2018	B7-037-SB-5* 10/5/2018	B7-038-SB-1* 10/2/2018
Metal											
Aluminum	mg/kg	1,100,000	**13,300**	**12,300**	**11,300**	**18,200**	**16,800**	**10,900**	**15,200**	**14,400**	**11,700**
Antimony	mg/kg	470	2.8 U	2.8 U	3 UJ	2.8 UJ	2.7 UJ	3.1 U	2.7 U	2.7 U	3.3 U
Arsenic	mg/kg	3	**6.9**	**3.9**	**16.3**	**6.6**	**4.6**	**6.6**	**4.6**	2.3 U	**6.9**
Barium	mg/kg	220,000	**59.4**	**36.7**	**166 J**	**61.6 J**	**27.4 J**	**65.9**	**44.7**	**42.2**	**106**
Beryllium	mg/kg	2,300	**0.55 J**	**0.52 J**	**0.67 J**	**0.69 J**	**0.76 J**	**0.66 J**	**0.47 J**	**0.45 J**	**1 J**
Cadmium	mg/kg	980	1.4 U	1.4 U	**1.4 J**	1.4 U	1.3 U	1.6 U	1.3 U	1.4 U	**0.49 J**
Chromium	mg/kg	120,000	**19.9**	**17.5**	**41.2**	**29.8**	**19.7**	**20.9**	**22.2**	**16.2**	**62.1**
Chromium VI	mg/kg	6.3	1.2 U	1.2 U	1.3 UJ	1.2 UJ	1.2 UJ	1.3 U	1.2 U	1.2 U	1.4 U
Cobalt	mg/kg	350	**6.9**	**4.2 J**	**11.5**	**5.9**	**4.3 J**	**10.7**	**4.6**	**2.5 J**	**16.1**
Copper	mg/kg	47,000	**10.3**	**8.1**	**29.2**	**16**	**5.7**	**17.8**	**8**	**10.2**	**30.7**
Iron	mg/kg	820,000	**16,900**	**14,000**	**20,200**	**19,300**	**16,000**	**14,200**	**16,600**	**10,700**	**25,600**
Lead	mg/kg	800	**22.4**	**8.9**	**125 J**	**29.6 J**	**11 J**	**44.3**	**14.5**	**10.8**	**83.2**
Manganese	mg/kg	26,000	**286**	**86.8**	**4,060**	**184**	**36.1**	**383**	**70.1**	**19**	**786**
Mercury	mg/kg	350	**0.076 J**	0.12 U	**0.26**	**0.0098 J**	0.11 U	**0.18**	**0.02 J**	0.11 U	**0.096 J**
Nickel	mg/kg	22,000	**11.5**	**10.9**	**20**	**13**	**10.5**	**14**	**11.7**	**7.4 J**	**31.9**
Selenium	mg/kg	5,800	3.8 U	3.7 U	4 U	3.7 U	3.6 U	4.1 U	3.6 U	3.7 U	4.5 U
Silver	mg/kg	5,800	2.8 U	2.8 U	3 U	2.8 U	2.7 U	3.1 U	2.7 U	2.7 U	3.3 U
Vanadium	mg/kg	5,800	**31.4**	**21.3**	**70.1 J**	**42.1 J**	**29.2 J**	**31.9**	**32.7**	**25.4**	**270**
Zinc	mg/kg	350,000	**53**	**25.6**	**378**	**75.1**	**25**	**123**	**39**	**16.9**	**295**
Other											
Cyanide	mg/kg	150	1.2 U	1 U	**0.24 J**	**0.17 J**	0.98 U	1.3 U	1.1 U	1.1 U	**0.51 J**

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

Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-038-SB-2* 10/2/2018	B7-038-SB-8* 10/2/2018	B7-039-SB-1 10/4/2018	B7-039-SB-2 10/4/2018	B7-039-SB-5 10/4/2018	B7-040-SB-1* 10/2/2018	B7-040-SB-2* 10/2/2018	B7-040-SB-7* 10/2/2018	B7-040-SB-10 10/2/2018
Metal											
Aluminum	mg/kg	1,100,000	**14,300**	**15,100**	**11,200**	**18,400**	**13,300**	**18,700**	**16,800**	**29,500**	N/A
Antimony	mg/kg	470	2.9 U	2.9 U	3 UJ	2.8 UJ	2.7 UJ	2.7 U	2.7 U	3 U	N/A
Arsenic	mg/kg	3	2.4 U	2.4 U	**7.6**	**7.7**	**2.4**	**6.2**	**4.9**	**6**	**5.3**
Barium	mg/kg	220,000	**110**	**28.2**	**65.5 J**	**67 J**	**30.8 J**	**202**	**90.4**	**68**	N/A
Beryllium	mg/kg	2,300	**1**	**0.79 J**	**0.62 J**	**0.89 J**	**0.41 J**	**1.2**	**1.1**	**0.64 J**	N/A
Cadmium	mg/kg	980	1.5 U	1.5 U	1.5 U	1.4 U	1.4 U	**0.36 J**	1.3 U	1.5 U	N/A
Chromium	mg/kg	120,000	**17.2**	**27.8**	**27.7**	**30.7**	**13.5**	**396**	**22.4**	**36.8**	N/A
Chromium VI	mg/kg	6.3	1.2 U	1.3 U	1.2 UJ	1.2 UJ	1.1 UJ	1.1 U	1.2 U	1.2 U	N/A
Cobalt	mg/kg	350	**9.1**	**6.5**	**11.2**	**7.7**	**3.3 J**	**7.5**	**22.4**	**5.1**	N/A
Copper	mg/kg	47,000	**17.8**	**14.9**	**36.3**	**12.4**	**4.2 J-**	**19.7**	**7.4**	**11.1**	N/A
Iron	mg/kg	820,000	**12,500**	**15,300**	**18,500**	**22,800**	**12,800**	**41,300**	**14,900**	**23,500**	N/A
Lead	mg/kg	800	**37.1**	**12.5**	**63.5 J**	**14 J**	**11.9 J**	**48.1**	**14.4**	**14.4**	N/A
Manganese	mg/kg	26,000	**178**	**49.6**	**490**	**97**	**18**	**18,300**	**507**	**69.9**	N/A
Mercury	mg/kg	350	**0.27**	**0.0079 J**	**1.3**	**0.015 J**	0.11 U	**0.2**	**0.098 J**	0.12 U	N/A
Nickel	mg/kg	22,000	**13.7**	**14.8**	**15.5**	**16.2**	**7.7 J**	**33.5**	**20.3**	**13.5**	N/A
Selenium	mg/kg	5,800	3.9 U	3.9 U	3.9 U	3.7 U	3.6 U	3.6 U	3.6 U	4 U	N/A
Silver	mg/kg	5,800	2.9 U	2.9 U	3 U	2.8 U	2.7 U	2.7 U	2.7 U	3 U	N/A
Vanadium	mg/kg	5,800	**28.2**	**39.2**	**38.1 J**	**40.4 J**	**20.5 J**	**1,020**	**51.2**	**59.2**	N/A
Zinc	mg/kg	350,000	**58**	**54.1**	**181**	**46.3**	**17**	**166**	**45.8**	**49.6**	N/A
Other											
Cyanide	mg/kg	150	1 U	1.1 U	1.3 U	1.1 U	0.97 U	**0.71 J**	**0.14 J**	**0.27 J**	N/A

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-041-SB-1	B7-041-SB-2	B7-041-SB-5	B7-042-SB-1	B7-042-SB-2	B7-042-SB-5	B7-043-SB-1*	B7-043-SB-2*	B7-043-SB-4*	B7-044-SB-1
			10/3/2018	10/3/2018	10/3/2018	10/4/2018	10/4/2018	10/4/2018	10/5/2018	10/5/2018	10/5/2018	10/4/2018
Metal												
Aluminum	mg/kg	1,100,000	**19,700**	**11,800**	**14,500**	**15,600**	**15,300**	**14,500**	**23,100**	**18,300**	**17,600**	**12,300**
Antimony	mg/kg	470	2.8 UJ	3 UJ	2.8 UJ	3.4 UJ	2.9 UJ	2.7 UJ	2.8 U	2.8 U	2.8 U	2.9 UJ
Arsenic	mg/kg	3	**9.3**	**13.7**	**4**	**5.6**	**5.9**	**4.1**	**8.9**	**8**	**4.8**	**8.2**
Barium	mg/kg	220,000	**130 J**	**65.4 J**	**70.8 J**	**93.5 J**	**56.5 J**	**72.1 J**	**76.4**	**44.7**	**42.6**	**72.4 J**
Beryllium	mg/kg	2,300	**1.7**	**0.59 J**	**0.76 J**	**0.76 J**	**0.55 J**	**0.5 J**	**0.72 J**	**0.4 J**	**0.64 J**	**0.65 J**
Cadmium	mg/kg	980	**0.52 J**	1.5 U	1.4 U	1.7 U	1.4 U	1.3 U	1.4 U	1.4 U	1.4 U	1.5 U
Chromium	mg/kg	120,000	**146 J**	**25.9 J**	**23 J**	**70.4**	**23**	**13.8**	**35.6**	**24.9**	**19.5**	**22.1**
Chromium VI	mg/kg	6.3	1.2 U	**0.83 J**	**0.98 J**	1.5 UJ	1.2 UJ	**0.63 J-**	1.2 U	1.2 U	1.2 U	1.2 UJ
Cobalt	mg/kg	350	**20.3**	**3.6 J**	**8.4**	**12.4**	**6**	**2.7 J**	**3.8 J**	**3.7 J**	**2.2 J**	**13.9**
Copper	mg/kg	47,000	**28**	**15.1**	**11.6**	**18.4**	**11.9**	**5.2**	**12.8**	**9.2**	**7.5**	**19.8**
Iron	mg/kg	820,000	**50,600**	**35,300**	**14,600**	**21,300**	**17,000**	**10,400**	**27,500**	**11,900**	**9,470**	**15,100**
Lead	mg/kg	800	**45.2 J**	**21.7 J**	**10.2 J**	**68.2 J**	**26 J**	**10.5 J**	**14.2**	**11.1**	**10.6**	**57.3 J**
Manganese	mg/kg	26,000	**3,670 J**	**342 J**	**109 J**	**750**	**119**	**24.3**	**223**	**81.9**	**63.6**	**510**
Mercury	mg/kg	350	**0.23**	**0.29**	0.11 U	**0.39**	**0.1 J**	0.11 U	**0.026 J**	0.11 U	0.12 U	**0.16**
Nickel	mg/kg	22,000	**61.7**	**9.8 J**	**14.2**	**16.1**	**11.3**	**5.5 J**	**12.4**	**14.6**	**7.4 J**	**14.8**
Selenium	mg/kg	5,800	3.8 U	4 U	3.7 U	4.5 U	3.8 U	3.6 U	3.7 U	3.7 U	3.7 U	3.9 U
Silver	mg/kg	5,800	2.8 U	3 U	2.8 U	3.4 U	2.9 U	2.7 U	2.8 U	2.8 U	2.8 U	2.9 U
Vanadium	mg/kg	5,800	**247**	**45**	**36.6**	**294 J**	**36.7 J**	**23.3 J**	**57.3**	**29.2**	**24.1**	**44.2 J**
Zinc	mg/kg	350,000	**236**	**43.2**	**39.6**	**102**	**62.5**	**15.2**	**47.7**	**30.8**	**19.3**	**116**
Other												
Cyanide	mg/kg	150	**0.28 J**	1.3 U	1.2 U	1.2 U	0.98 U	1.1 U	**0.18 J**	1.1 U	1.2 U	**0.14 J**

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-044-SB-2	B7-044-SB-5	B7-045-SB-1.5	B7-045-SB-5	B7-045-SB-10*	B7-046-SB-1*	B7-046-SB-4*	B7-046-SB-10*	B7-047-SB-1
			10/4/2018	10/4/2018	10/30/2018	10/30/2018	10/30/2018	10/5/2018	10/5/2018	10/4/2018	10/3/2018
Metal											
Aluminum	mg/kg	1,100,000	**30,100**	**14,700**	**11,200**	**14,000**	N/A	**14,700**	**17,600**	N/A	**16,500**
Antimony	mg/kg	470	3 UJ	2.8 UJ	**4.8 J**	2.8 UJ	N/A	2.6 U	2.8 U	N/A	2.9 UJ
Arsenic	mg/kg	3	**8.5**	**4**	**64.8**	**4.7**	**2.9**	**5.7**	**7.2**	**10.9**	**3.2**
Barium	mg/kg	220,000	**71.3 J**	**19.1 J**	**168 J**	**97.6 J**	N/A	**508**	**53.8**	N/A	**62.2 J**
Beryllium	mg/kg	2,300	**1.1**	**0.58 J**	**0.91 J**	**0.88 J**	N/A	**1.1**	**0.7 J**	N/A	**0.73 J**
Cadmium	mg/kg	980	1.5 U	1.4 U	**1.2 J**	1.4 U	N/A	**0.44 J**	1.4 U	N/A	1.5 U
Chromium	mg/kg	120,000	**40.5**	**12.8**	**696 J**	**24.6 J**	N/A	**330**	**24.3**	N/A	**19.9 J**
Chromium VI	mg/kg	6.3	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	N/A	1.1 U	1.2 U	N/A	1.3 U
Cobalt	mg/kg	350	**5.8**	**2.1 J**	**150**	**11.4**	N/A	**3.5 J**	**6.7**	N/A	**16.2**
Copper	mg/kg	47,000	**18.2**	**4.2 J-**	**315 J**	**73.3 J**	N/A	**17.9**	**9.5**	N/A	**6.7**
Iron	mg/kg	820,000	**28,700**	**11,300**	**141,000**	**20,800**	N/A	**57,500**	**20,300**	N/A	**16,800**
Lead	mg/kg	800	**15.6 J**	**10.9 J**	**197**	**76.7**	N/A	**59.7**	**16.1**	N/A	**12.6 J**
Manganese	mg/kg	26,000	**51.3**	**12.6**	**125,000**	**304**	N/A	**17,600**	**123**	N/A	**463 J**
Mercury	mg/kg	350	0.12 U	0.11 U	**0.62**	**0.089 J**	N/A	**0.041 J**	**0.05 J**	N/A	**0.026 J**
Nickel	mg/kg	22,000	**14.9**	**5.9 J**	**351**	**18.6**	N/A	**11.1**	**12.1**	N/A	**13.2**
Selenium	mg/kg	5,800	4 U	3.7 U	**5.8**	3.8 U	N/A	3.4 U	3.7 U	N/A	3.9 U
Silver	mg/kg	5,800	3 U	2.8 U	2.8 U	**2.7 J**	N/A	2.6 U	2.8 U	N/A	2.9 U
Vanadium	mg/kg	5,800	**59.4 J**	**19.5 J**	**2,480**	**40.2**	N/A	**505**	**38.6**	N/A	**30.6**
Zinc	mg/kg	350,000	**46.5**	**14.5**	**572**	**108**	N/A	**169**	**56.1**	N/A	**44.3**
Other											
Cyanide	mg/kg	150	1.1 U	0.97 U	**0.18 J**	**0.36 J**	N/A	**0.65 J**	0.96 U	N/A	1.1 U

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-047-SB-5	B7-048-SB-1*	B7-048-SB-5*	B7-048-SB-10*	B7-049-SB-1	B7-049-SB-5	B7-050-SB-1*	B7-050-SB-5*	B7-051-SB-1
			10/3/2018	10/8/2018	10/8/2018	10/8/2018	10/3/2018	10/3/2018	10/8/2018	10/8/2018	3/7/2019
Metal											
Aluminum	mg/kg	1,100,000	**12,100**	**29,000**	**15,700**	N/A	**33,500**	**10,000**	**43,900**	**46,600**	**10,700**
Antimony	mg/kg	470	2.8 UJ	2.6 U	2.9 U	N/A	2.5 UJ	2.7 UJ	3 U	2.7 U	2.9 UJ
Arsenic	mg/kg	3	**2.8**	**2.8**	**11**	**10.2**	**3.2**	**2.5**	2.5 U	2.2 U	**6.2**
Barium	mg/kg	220,000	**14.9 J**	**598**	**46.1**	N/A	**322 J**	**51 J**	**284**	**334**	**158 J**
Beryllium	mg/kg	2,300	**0.49 J**	**2**	**0.65 J**	N/A	**4.8**	**0.55 J**	**5.8**	**6.8**	**0.66 J**
Cadmium	mg/kg	980	1.4 U	**1.2 J**	1.4 U	N/A	**0.51 J**	1.4 U	1.5 U	1.3 U	**0.99 J**
Chromium	mg/kg	120,000	**13.3 J**	**109**	**31.2**	N/A	**73.8 J**	**21.3 J**	**32.2**	**10**	**56.8**
Chromium VI	mg/kg	6.3	**0.82 J**	1.1 U	1.3 U	N/A	1.1 U	1.2 U	1.3 U	1.1 U	1.2 R
Cobalt	mg/kg	350	**3.1 J**	**3.9 J**	**4.7 J**	N/A	**6**	**12.3**	**2.8 J**	**0.91 J**	**6.1**
Copper	mg/kg	47,000	**5.4**	**46.8**	**9.8**	N/A	**20.6**	**12.9**	**10.7**	**3.2 J**	**36.5**
Iron	mg/kg	820,000	**15,600**	**27,600**	**25,400**	N/A	**34,100**	**11,700**	**51,300**	**17,100**	**21,600 J**
Lead	mg/kg	800	**7.4 J**	**171**	**11.8**	N/A	**57.9 J**	**46.4 J**	**21.4**	**4.6**	**151 J**
Manganese	mg/kg	26,000	**23.4 J**	**8,390**	**54.9**	N/A	**3,970 J**	**512 J**	**2,710**	**2,460**	**1,130**
Mercury	mg/kg	350	0.12 U	**0.028 J**	0.12 U	N/A	**0.013 J**	**0.056 J**	**0.066 J**	0.12 U	**0.16**
Nickel	mg/kg	22,000	**7 J**	**23.5**	**10.9**	N/A	**13.4**	**11.5**	**6.3 J**	**1.2 J**	**17.3**
Selenium	mg/kg	5,800	3.8 U	**2.9 J**	3.8 U	N/A	3.3 U	3.6 U	**3.8 J**	**7.9**	3.9 U
Silver	mg/kg	5,800	2.8 U	2.6 U	2.9 U	N/A	2.5 U	2.7 U	3 U	2.7 U	2.9 U
Vanadium	mg/kg	5,800	**18.7**	**344**	**40.8**	N/A	**186**	**58.5**	**51.6**	**21.3**	**97.2 J**
Zinc	mg/kg	350,000	**18.8**	**289**	**32.7**	N/A	**261**	**100**	**91.9**	1.7 B	**368**
Other											
Cyanide	mg/kg	150	1.1 U	**0.43 J**	1 U	N/A	**0.38 J**	1.2 U	**1.6**	**0.58 J**	1 UJ

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-051-SB-5 3/7/2019	B7-052-SB-1 3/7/2019	B7-052-SB-4 3/7/2019	B7-053-SB-1 12/7/2020	B7-053-SB-2 12/7/2020	B7-053-SB-5 12/7/2020	B7-054-SB-1 12/7/2020	B7-054-SB-2 12/7/2020	B7-054-SB-5 12/7/2020	B7-054-SB-10* 12/7/2020
Metal												
Aluminum	mg/kg	1,100,000	**12,300**	**12,600**	**8,730**	**31,900**	**13,400**	**16,600**	**15,700**	**12,000**	**15,000**	N/A
Antimony	mg/kg	470	3 UJ	2.4 UJ	2.6 UJ	2.7 UJ	2.7 UJ	2.9 UJ	2.5 UJ	3 UJ	3 UJ	N/A
Arsenic	mg/kg	3	**9.5**	2 U	**2.8**	2.2 UJ	**3.6**	**6.7**	2.1 UJ	**5.5**	**4.7**	**3.2**
Barium	mg/kg	220,000	**101 J**	**48.2 J**	**54.5 J**	**350 J**	**61.2 J**	**34.3 J**	**314 J**	**63.8 J**	**123 J**	N/A
Beryllium	mg/kg	2,300	**0.74 J**	**0.17 J**	**0.51 J**	**4.8**	**0.5 J**	**0.65 J**	**2**	**0.58 J**	**0.6 J**	N/A
Cadmium	mg/kg	980	1.5 U	1.2 U	1.3 U	**0.35 J**	1.4 U	1.4 U	**0.54 J**	1.5 U	1.5 U	N/A
Chromium	mg/kg	120,000	**28.7**	**38.1**	**16.1**	**22.3 J**	**20.5 J**	**26.7 J**	**445 J**	**19.8 J**	**27.4 J**	N/A
Chromium VI	mg/kg	6.3	1.3 R	1 R	1.1 R	1.1 R	1.2 R	0.79 B	0.8 B	1.2 R	1.2 R	N/A
Cobalt	mg/kg	350	**9.4**	**7.7**	**6.9**	4.4 U	**5.7**	**6.2**	**3.2 J**	**8.4**	**5.3**	N/A
Copper	mg/kg	47,000	**77.2**	**48.3**	**71.6**	**3.1 J**	**12.2**	**13.1**	**24.2**	**16.3**	**14.2**	N/A
Iron	mg/kg	820,000	**19,400 J**	**21,800 J**	**14,300 J**	**4,480 J**	**17,900 J**	**16,200 J**	**55,900 J**	**13,200 J**	**16,800 J**	N/A
Lead	mg/kg	800	**82.2 J**	**2.1 J**	**25.5 J**	**5.8**	**20.9**	**11.4**	**30.7**	**42.9**	**10.4**	N/A
Manganese	mg/kg	26,000	**458**	**432**	**297**	**2,370 J**	**243 J**	**67.9 J**	**25,900 J**	**195 J**	**84.9 J**	N/A
Mercury	mg/kg	350	**0.036 J**	0.11 U	**0.02 J**	0.1 U	**0.14**	**0.022 J**	0.11 U	**0.2**	0.12 U	N/A
Nickel	mg/kg	22,000	**16.8**	**12.1**	**11.6**	**1.6 J**	**12.2**	**13.9**	**5.3 J**	**14**	**13.1**	N/A
Selenium	mg/kg	5,800	3.9 U	3.2 U	3.5 U	3.5 U	3.6 U	3.8 U	3.4 U	4 U	4 U	N/A
Silver	mg/kg	5,800	3 U	2.4 U	2.6 U	2.7 UJ	2.7 UJ	2.9 UJ	2.5 UJ	3 UJ	3 UJ	N/A
Vanadium	mg/kg	5,800	**41.8 J**	**38.8 J**	**23.4 J**	**39.9 J**	**32.8 J**	**33.1 J**	**1,230 J**	**28 J**	**34.5 J**	N/A
Zinc	mg/kg	350,000	**139**	**54.2**	**94.4**	**5.9**	**48**	**43.5**	**91.3**	**81.3**	**41.4**	N/A
Other												
Cyanide	mg/kg	150	**0.2 J-**	1 UJ	0.9 UJ	**0.37 J**	**0.25 J**	**0.17 J**	**0.38 J**	**0.19 J**	**0.16 J**	N/A

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-055-SB-1* 12/8/2020	B7-055-SB-2* 12/8/2020	B7-055-SB-5* 12/8/2020	B7-055-SB-10* 12/8/2020	B7-056-SB-1 12/7/2020	B7-056-SB-2 12/7/2020	B7-056-SB-5 12/7/2020	B7-056-SB-10* 12/7/2020	B7-057-SB-1* 12/10/2020
Metal											
Aluminum	mg/kg	1,100,000	**13,600**	**12,400**	**16,900**	N/A	**15,800**	**13,100**	**8,770**	N/A	**14,300**
Antimony	mg/kg	470	3 U	3 U	3 U	N/A	2.7 UJ	2.8 UJ	2.6 UJ	N/A	2.8 U
Arsenic	mg/kg	3	**6.6**	**5.3**	**8.6**	**7.9**	**4.4**	**6.4**	**5**	**18.9**	**8.6**
Barium	mg/kg	220,000	**111**	**71.1**	**38.2**	N/A	**99.4 J**	**49.2 J**	**46.6 J**	N/A	**71.4**
Beryllium	mg/kg	2,300	**1.1**	**0.64 J**	**0.9 J**	N/A	**0.92**	**0.63 J**	**0.47 J**	N/A	**0.88 J**
Cadmium	mg/kg	980	**0.38 J**	1.5 U	1.5 U	N/A	**0.36 J**	1.4 U	1.3 U	N/A	**0.52 J**
Chromium	mg/kg	120,000	**29**	**23.9**	**30.5**	N/A	**39.6 J**	**33.9 J**	**12.8 J**	N/A	**49.7**
Chromium VI	mg/kg	6.3	1.3 U	1.3 U	**1.3**	N/A	1.2 R	1.2 R	1.1 R	N/A	1.2 U
Cobalt	mg/kg	350	**5.6**	**5.4**	**6.6**	N/A	**5.4**	**4.8**	**5.1**	N/A	**10**
Copper	mg/kg	47,000	**19**	**14.4**	**15.6**	N/A	**14.7**	**13.9**	**12.2**	N/A	**41.8**
Iron	mg/kg	820,000	**21,000**	**16,000**	**36,200**	N/A	**18,500 J**	**24,500 J**	**9,650 J**	N/A	**34,000**
Lead	mg/kg	800	**38.5**	**37.1**	**12.3**	N/A	**29.6**	**27.5**	**27.8**	N/A	**74.1**
Manganese	mg/kg	26,000	**1,140**	**261**	**75.1**	N/A	**1,120 J**	**263 J**	**78.7 J**	N/A	**719**
Mercury	mg/kg	350	**0.041 J**	**0.056 J**	0.12 U	N/A	**0.04 J**	**0.011 J**	**0.52**	N/A	**0.66**
Nickel	mg/kg	22,000	**12.9**	**11.9**	**15.7**	N/A	**12.7**	**13.2**	**10.1**	N/A	**32.6**
Selenium	mg/kg	5,800	4 U	4 U	4 U	N/A	3.6 U	3.8 U	3.5 U	N/A	3.7 U
Silver	mg/kg	5,800	3 U	3 U	3 U	N/A	2.7 UJ	2.8 UJ	2.6 UJ	N/A	2.8 U
Vanadium	mg/kg	5,800	**58.6**	**27.1**	**41.7**	N/A	**72.7 J**	**35.7 J**	**16.1 J**	N/A	**86.2**
Zinc	mg/kg	350,000	**153**	**67.9**	**46.8**	N/A	**68.3**	**48.3**	**40.9**	N/A	**191**
Other											
Cyanide	mg/kg	150	1.1 U	**0.14 J**	1 U	N/A	**0.19 J**	1.1 U	**0.13 J**	N/A	**0.31 J**

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-057-SB-2* 12/10/2020	B7-057-SB-5* 12/10/2020	B7-058-SB-1 12/7/2020	B7-058-SB-2 12/7/2020	B7-058-SB-5 12/7/2020	B7-059-SB-1 12/7/2020	B7-059-SB-2 12/7/2020	B7-059-SB-5 12/7/2020	B7-059-SB-10* 12/7/2020
Metal											
Aluminum	mg/kg	1,100,000	**22,700**	**16,700**	**13,200**	**13,200**	**8,340**	**7,880**	**17,200**	**16,400**	N/A
Antimony	mg/kg	470	3.2 U	2.9 U	2.9 UJ	3.1 UJ	2.8 UJ	3 UJ	3.4 UJ	2.9 UJ	N/A
Arsenic	mg/kg	3	**7.2**	**4.4**	**4.2**	**4.3**	**2.3 J-**	**5.5**	**7.7**	**5.2**	**12**
Barium	mg/kg	220,000	**87.7**	**138**	**47.7 J**	**27.6 J**	**18.7 J**	**29.3 J**	**77.1 J**	**43.1 J**	N/A
Beryllium	mg/kg	2,300	**1.4**	**1.2**	**0.44 J**	**0.25 J**	**0.15 J**	**0.3 J**	**0.49 J**	**0.5 J**	N/A
Cadmium	mg/kg	980	**0.48 J**	**0.65 J**	1.4 U	1.5 U	1.4 U	1.5 U	1.7 U	1.4 U	N/A
Chromium	mg/kg	120,000	**78.9**	**89.9**	**20.3 J**	**21.3 J**	**8.8 J**	**28.8 J**	**129 J**	**25.6 J**	N/A
Chromium VI	mg/kg	6.3	1.3 U	1.2 U	1.2 R	0.86 B	1.2 R	1.2 R	1.4 R	0.87 B	N/A
Cobalt	mg/kg	350	**16.7**	**15.2**	**6**	**3.8 J**	**2.1 J**	**3.9 J**	**8.9**	**5.4**	N/A
Copper	mg/kg	47,000	**26.2**	**22.2**	**10.5**	**7.9**	**3.6 J**	**11.4**	**35.5**	**11.4**	N/A
Iron	mg/kg	820,000	**37,700**	**25,200**	**16,200 J**	**17,000 J**	**6,920 J**	**24,700 J**	**44,100 J**	**20,600 J**	N/A
Lead	mg/kg	800	**47.7**	**82.3**	**19.1**	**8.2**	**4**	**11.8**	**45.3**	**10.6**	N/A
Manganese	mg/kg	26,000	**1,220**	**2,250**	**200 J**	**80.3 J**	**33.4 J**	**174 J**	**222 J**	**89.8 J**	N/A
Mercury	mg/kg	350	**0.092 J**	**0.22**	**0.043 J**	**0.013 J**	0.11 U	**0.016 J**	**0.041 J**	0.12 U	N/A
Nickel	mg/kg	22,000	**67.2**	**78.7**	**12.1**	**8.5 J**	**5.8 J**	**19.3**	**40.1**	**14**	N/A
Selenium	mg/kg	5,800	4.3 U	3.8 U	3.8 U	4.1 U	3.8 U	4 U	4.5 U	3.9 U	N/A
Silver	mg/kg	5,800	3.2 U	2.9 U	2.9 UJ	3.1 UJ	2.8 UJ	3 UJ	3.4 UJ	2.9 UJ	N/A
Vanadium	mg/kg	5,800	**72.1**	**101**	**28.8 J**	**27.1 J**	**12 J**	**36.1 J**	**54.1 J**	**35.5 J**	N/A
Zinc	mg/kg	350,000	**137**	**181**	**62.8**	**21.9**	**15.8**	**32.3**	**73.4**	**32.8**	N/A
Other											
Cyanide	mg/kg	150	**0.68 J**	**1.1**	**0.16 J**	**0.17 J**	**0.15 J**	**0.27 J**	**0.22 J**	**0.17 J**	N/A

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-060-SB-1* 12/8/2020	B7-060-SB-2* 12/8/2020	B7-060-SB-5* 12/8/2020	B7-060-SB-10* 12/8/2020	B7-061-SB-1* 12/10/2020	B7-061-SB-2* 12/10/2020	B7-061-SB-4* 12/10/2020	B7-062-SB-1* 9/18/2019	B7-062-SB-5* 9/18/2019
Metal											
Aluminum	mg/kg	1,100,000	**13,700**	**18,200**	**11,600**	N/A	**14,300**	**21,200**	**16,000**	**32,900**	**11,700**
Antimony	mg/kg	470	3.2 U	3 U	2.7 U	N/A	2.9 U	2.8 U	2.8 U	2.6 U	2.7 U
Arsenic	mg/kg	3	**7.7**	**18.4**	**6.6**	**9.4**	**5.7**	**7**	**3.9**	2.2 U	**2.3**
Barium	mg/kg	220,000	**86.2**	**153**	**57**	N/A	**62.7**	**75.4**	**65.9**	**466**	**44.2**
Beryllium	mg/kg	2,300	**0.96 J**	**1.4**	**0.62 J**	N/A	**0.59 J**	**0.66 J**	**0.51 J**	**1.8**	**0.45 J**
Cadmium	mg/kg	980	**0.6 J**	**0.85 J**	1.4 U	N/A	**0.36 J**	1.4 U	1.4 U	1.3 U	1.3 U
Chromium	mg/kg	120,000	**61.7**	**109**	**18.6**	N/A	**25.7**	**26.3**	**12.5**	**78.3**	**9.6**
Chromium VI	mg/kg	6.3	1.3 U	1.3 U	1.2 U	N/A	1.2 U	1.2 U	1.2 U	**0.6 J**	**0.66 J**
Cobalt	mg/kg	350	**11.4**	**36.3**	**8.4**	N/A	**6.3**	**4.8**	**3 J**	**4.7**	**2 J**
Copper	mg/kg	47,000	**48.7**	**560**	**14.1**	N/A	**18.5**	**11.6**	**5**	**22.4**	**4.5**
Iron	mg/kg	820,000	**32,000**	**311,000**	**16,000**	N/A	**19,600**	**19,300**	**15,800**	**8,820**	**5,410**
Lead	mg/kg	800	**103**	**51.2**	**27**	N/A	**42.2**	**10.7**	**10.8**	**41.2**	**8.1**
Manganese	mg/kg	26,000	**1,100**	**1,650**	**187**	N/A	**221**	**51.9**	**19.6**	**2,470**	**20.8**
Mercury	mg/kg	350	**0.69**	**0.15**	**0.061 J**	N/A	0.12 U	0.12 U	0.12 U	**0.093 J**	0.11 U
Nickel	mg/kg	22,000	**40.4**	**99.4**	**12.3**	N/A	**13.4**	**12.1**	**8.4 J**	**32**	**5.1 J**
Selenium	mg/kg	5,800	4.2 U	4 U	3.6 U	N/A	3.9 U	3.8 U	3.7 U	3.5 U	3.6 U
Silver	mg/kg	5,800	3.2 U	3 U	2.7 U	N/A	2.9 U	2.8 U	2.8 U	2.6 U	2.7 U
Vanadium	mg/kg	5,800	**83.2**	**115**	**27.7**	N/A	**35.4**	**30.8**	**18.5**	**45.9**	**15.4**
Zinc	mg/kg	350,000	**229**	**123**	**58.8**	N/A	**106**	**23.3**	**15.3**	**40.1**	**10.3**
Other											
Cyanide	mg/kg	150	**0.45 J**	**0.32 J**	1.2 U	N/A	1 U	**0.14 J**	1.1 U	**0.79 J**	**0.15 J**

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Table 8 - Parcel B7 & Parcel B25
Summary of Inorganics Detected in Soil

Parameter	Units	PAL	B7-063-SB-1* 9/18/2019	B7-063-SB-8* 9/18/2019	B7-064-SB-1* 12/10/2020	B7-064-SB-2* 12/10/2020	B7-064-SB-5* 12/10/2020	B7-065-SB-1* 12/10/2020	B7-065-SB-2* 12/10/2020	B7-065-SB-5* 12/10/2020
Metal										
Aluminum	mg/kg	1,100,000	**23,700**	**11,400**	**15,600**	**19,300**	**11,900**	**14,700**	**24,300**	**11,600**
Antimony	mg/kg	470	2.6 U	2.8 U	2.8 U	2.7 U	2.9 U	2.9 U	3.1 U	2.8 U
Arsenic	mg/kg	3	**4.5**	2.3 U	**5.2**	**4**	2.4 U	**4.4**	**2.8**	**3.5**
Barium	mg/kg	220,000	**406**	**21**	**50.8**	**74.3**	**33.1**	**47.1**	**103**	**45.7**
Beryllium	mg/kg	2,300	**1.4**	**0.26 J**	**0.34 J**	**0.53 J**	**0.28 J**	**0.31 J**	**0.62 J**	**0.31 J**
Cadmium	mg/kg	980	0.44 B	1.4 U	1.4 U	1.4 U	1.5 U	1.5 U	1.5 U	1.4 U
Chromium	mg/kg	120,000	**73.7**	**10.7**	**18.6**	**18.7**	**16**	**17.6**	**24.3**	**11.9**
Chromium VI	mg/kg	6.3	**0.62 J**	**0.61 J**	1.2 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U
Cobalt	mg/kg	350	**7.3**	**2.2 J**	**4.6 J**	**4.2 J**	**2.7 J**	**3.6 J**	**4.6 J**	**2.7 J**
Copper	mg/kg	47,000	**36.9**	**4.8**	**8.8**	**9.2**	**6.5**	**8.1**	**8.7**	**7.2**
Iron	mg/kg	820,000	**14,800**	**4,210**	**18,200**	**25,800**	**6,650**	**14,200**	**11,100**	**12,500**
Lead	mg/kg	800	**108**	**7.8**	**10.9**	**11.5**	**8**	**9.4**	**10.1**	**8.3**
Manganese	mg/kg	26,000	**2,970**	**40.8**	**71.8**	**28.4**	**22.9**	**45.9**	**28.1**	**17.6**
Mercury	mg/kg	350	**0.068 J**	0.11 U	**0.018 J**	0.12 U	0.11 U	0.11 U	0.13 U	0.11 U
Nickel	mg/kg	22,000	**24**	**7.9 J**	**9.6**	**9.3**	**8.6 J**	**9.4 J**	**11.6**	**9.4**
Selenium	mg/kg	5,800	3.5 U	3.7 U	3.8 U	3.7 U	3.9 U	3.9 U	4.1 U	3.7 U
Silver	mg/kg	5,800	2.6 U	2.8 U	2.8 U	2.7 U	2.9 U	2.9 U	3.1 U	2.8 U
Vanadium	mg/kg	5,800	**81.2**	**13**	**29.3**	**25.1**	**15.4**	**25.3**	**21.1**	**13.3**
Zinc	mg/kg	350,000	**127**	**16.3**	**35.2**	**26.4**	**21.5**	**29.6**	**30.2**	**17.2**
Other										
Cyanide	mg/kg	150	**0.22 J**	**0.16 J**	**0.16 J**	1.1 U	1 U	1.2 U	**0.15 J**	**0.15 J**

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J-: The positive result reported for this analyte is a quantitative estimate, but may be biased low.
J+: The positive result reported for this analyte is a quantitative estimate, but may be biased high.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
R: The result for this analyte is unreliable. Additional data is needed to confirm or disprove the presence of this analyte in the sample.

Table 9 - Parcel B7 & Parcel B25
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	89%	82%	B7-045-SB-1.5	64.8	3
Benz[a]anthracene	56-55-3	72%	1%	B7-040-SB-1	479	21
Benzo[a]pyrene	50-32-8	69%	3%	B7-040-SB-1	298	2.1
Benzo[b]fluoranthene	205-99-2	69%	2%	B7-040-SB-1	464	21
Dibenz[a,h]anthracene	53-70-3	51%	1%	B7-040-SB-1	35.7	2.1
Indeno[1,2,3-c,d]pyrene	193-39-5	61%	1%	B7-040-SB-1	100	21
Manganese	7439-96-5	100%	3%	B7-045-SB-1.5	125,000	26,000
Oil & Grease	O&G	87%	1%	B25-011-SB-1	18,600	6,200

*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 10 - Parcel B7 (Northern Section)
Summary of Organics Detected in Groundwater

Parameter	Units	PAL	B7-053-PZ* 12/18/2020	B7-060-PZ 12/11/2020	B7-064-PZ 12/11/2020	B7-065-PZ 12/11/2020	SW-046-MWS* 12/18/2020	SW-046-MWS* 12/30/2020
Volatile Organic Compounds								
Acetone	µg/L	14,000	**12.3**	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether (MTBE)	µg/L	14	1 U	**0.68 J**	1 U	1 U	**10.4**	**9.7**
Semi-Volatile Organic Compounds^								
1,4-Dioxane	µg/L	0.46	0.5 U	0.098 U	0.1 U	**0.016 J**	**0.033 J**	**0.049 J**
2-Methylnaphthalene	µg/L	36	**0.091 J**	0.098 U	**0.01 J**	0.098 U	0.095 U	0.094 U
Acenaphthene	µg/L	530	**0.11 J**	0.098 U	0.1 U	0.098 U	0.095 U	0.094 U
Anthracene	µg/L	1,800	**0.34 J**	0.098 U	0.1 U	0.098 U	0.095 U	0.094 U
Benz[a]anthracene	µg/L	0.03	**0.64**	**0.02 J**	0.1 U	0.098 U	0.095 U	0.094 U
Benzo[a]pyrene	µg/L	0.2	**0.73**	**0.023 J**	0.1 U	0.098 U	0.095 U	0.094 U
Benzo[b]fluoranthene	µg/L	0.25	**0.8**	**0.023 J**	0.1 U	0.098 U	0.095 U	0.094 U
Benzo[g,h,i]perylene	µg/L		**0.56**	**0.021 J**	0.1 U	0.098 U	0.095 U	0.094 U
Benzo[k]fluoranthene	µg/L	2.5	**0.69**	**0.024 J**	0.1 U	0.098 U	0.095 U	0.094 U
Chrysene	µg/L	25	**0.84**	**0.024 J**	0.1 U	0.098 U	0.095 U	0.094 U
Dibenz[a,h]anthracene	µg/L	0.025	**0.13 J**	0.069 U	0.07 U	0.068 U	0.066 U	0.066 U
Diethylphthalate	µg/L	15,000	15 U	2.9 U	**1.7 J**	2.9 U	2.8 U	2.8 U
Dimethylphthalate	µg/L		15 U	2.9 U	**0.42 J**	2.9 U	2.8 U	2.8 U
Di-n-butylphthalate	µg/L	900	15 U	2.9 U	**0.54 J**	**0.44 J**	2.8 U	2.8 U
Fluoranthene	µg/L	800	**1.4**	**0.041 J**	0.1 U	**0.011 J**	0.095 U	0.094 U
Fluorene	µg/L	290	**0.086 J**	0.098 U	0.1 U	0.098 U	0.095 U	0.094 U
Indeno[1,2,3-c,d]pyrene	µg/L	0.25	**0.6**	**0.022 J**	0.1 U	0.098 U	0.095 U	0.094 U
Phenanthrene	µg/L		**0.63**	**0.027 J**	**0.015 J**	**0.013 J**	0.095 U	0.094 U
Pyrene	µg/L	120	**1.2**	**0.034 J**	0.1 U	0.098 U	0.095 U	0.094 U
TPH/Oil & Grease								
Diesel Range Organics	µg/L	47	**110**	**99 J**	**77 J**	100 UJ	**120**	**110**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
*indicates non-validated data
^PAH compounds and 1,4-dioxane were analyzed via SIM.

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.

Table 11 - Parcel B7 (Northern Section)
Summary of Inorganics Detected in Groundwater

Parameter	Units	PAL	B7-053-PZ* 12/18/2020	B7-060-PZ 12/11/2020	B7-064-PZ 12/11/2020	B7-065-PZ 12/11/2020	SW-046-MWS* 12/18/2020	SW-046-MWS* 12/30/2020
Total Metals								
Aluminum	µg/L	20,000	N/A	N/A	N/A	N/A	**126**	**154**
Barium	µg/L	2,000	N/A	N/A	N/A	N/A	**22.5**	**20.1**
Beryllium	µg/L	4	N/A	N/A	N/A	N/A	**0.49 J**	**0.59 J**
Cadmium	µg/L	5	N/A	N/A	N/A	N/A	**1.3 J**	**1 J**
Chromium	µg/L	100	N/A	N/A	N/A	N/A	**1.4 J**	**1.6 J**
Cobalt	µg/L	6	N/A	N/A	N/A	N/A	**221**	**221**
Iron	µg/L	14,000	N/A	N/A	N/A	N/A	**6,680**	**6,720**
Manganese	µg/L	430	N/A	N/A	N/A	N/A	**11,700**	**11,300**
Nickel	µg/L	390	N/A	N/A	N/A	N/A	**89.6**	**85.3**
Thallium	µg/L	2	N/A	N/A	N/A	N/A	10 U	**4 J**
Vanadium	µg/L	86	N/A	N/A	N/A	N/A	5 U	**0.82 J**
Zinc	µg/L	6,000	N/A	N/A	N/A	N/A	**133**	**128**
Dissolved Metals								
Aluminum, Dissolved	µg/L	20,000	**224**	**180**	**37,800**	**3,280**	**109**	**110**
Arsenic, Dissolved	µg/L	10	**3.6 J**	5 U	**7**	5 U	5 U	5 U
Barium, Dissolved	µg/L	2,000	**34.6**	**13.6**	**154**	**48**	**22.8**	**20.5**
Beryllium, Dissolved	µg/L	4	**0.68 J**	**0.31 J**	**1.2**	**4.5**	**0.4 J**	**0.23 J**
Cadmium, Dissolved	µg/L	5	2 B	**1.1 J**	**0.68 J**	**1.7 J**	1.2 B	**1 J**
Chromium, Dissolved	µg/L	100	**1.1 J**	**1.1 J**	**58.6**	**2 J**	**1.5 J**	**1.5 J**
Cobalt, Dissolved	µg/L	6	**36.1**	**65.4**	**10.4**	**134**	**219**	**228**
Copper, Dissolved	µg/L	1,300	5 U	5 U	**26.9**	**10**	5 U	5 U
Iron, Dissolved	µg/L	14,000	**1,070**	**2,650**	**38,300**	**465**	**6,410**	**6,330**
Lead, Dissolved	µg/L	15	5 U	5 U	**28**	**7.7**	5 U	5 U
Manganese, Dissolved	µg/L	430	**806**	**3,860**	**241**	**2,470**	**11,700**	**11,700**
Nickel, Dissolved	µg/L	390	**48.3**	**64.4**	**33.2**	**104**	**91.2**	**87.4**
Vanadium, Dissolved	µg/L	86	**9**	5 U	**60.3**	5 U	5 U	**0.58 J**
Zinc, Dissolved	µg/L	6,000	**69.6**	**50.9**	**86.2**	**144**	**135**	**131**
Other								
Cyanide	µg/L	200	10 U	**11**	10 U	10 U	**7.4 J**	**7.9 J**

Detections in bold
Values in red indicate an exceedance of the Project Action Limit (PAL)
N/A inidicates that the 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.
J: The positive result reported for this analyte is a quantitative estimate.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.

Table 12 - Parcel B7 (Northern Section)
Cumulative Vapor Intrusion Criteria Comparison

				B7-053-PZ 12/18/2020		B7-060-PZ 12/11/2020		B7-064-PZ 12/11/2020	
Parameter	Type	Organ Systems	VI Screening Criteria	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard
Cancer Risk									
1,4-Dioxane	SVOC		130,000	0.5 U	0	0.098 U	0	0.1 U	0
Methyl tert-butyl ether (MTBE)	VOC		20,000	1 U	0	0.68 J	3.4E-10	1 U	0
Cumulative Vapor Intrusion Risk =					0		3E-10		0
Non-Cancer Hazard									
Cumulative Vapor Intrusion Non-Cancer Hazard =					0		0		0

				B7-065-PZ 12/11/2020		SW-046-MWS 12/18/2020		SW-046-MWS 12/30/2020	
Parameter	Type	Organ Systems	VI Screening Criteria	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard	Conc. (ug/L)	Risk/ Hazard
Cancer Risk									
1,4-Dioxane	SVOC		130,000	0.016 J	1.2E-12	0.033 J	2.5E-12	0.049 J	3.8E-12
Methyl tert-butyl ether (MTBE)	VOC		20,000	1 U	0	10.4	5.2E-09	9.7	4.9E-09
Cumulative Vapor Intrusion Risk =					1E-12		5E-09		5E-09
Non-Cancer Hazard									
Cumulative Vapor Intrusion Non-Cancer Hazard =					0		0		0

Highlighted values indicate an exceedance of the cumulative vapor intrusion criteria:
TCR>1E-05
THI>1
Conc. = Concentration

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
J: The positive value reported for this analyte is a quantitative estimate.

Table 13 - Parcel B7 & Parcel B25
Rejected Analytical Results

Sample ID	Parameter	Result (mg/kg)	PAL (mg/kg)	Exceeds PAL?
B25-006-SB-2	1,4-Dioxane	0.099	24	no
B25-007-SB-4	1,4-Dioxane	0.09	24	no
B7-007-SB-1	Benzaldehyde	0.68	120,000	no
	Chromium VI	1	6.3	no
B7-007-SB-5	Benzaldehyde	0.76	120,000	no
	Chromium VI	1.2	6.3	no
B7-026-SD	1,4-Dioxane	0.14	24	no
B7-027-SD	1,4-Dioxane	0.18	24	no
B7-030-SB-1	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
B7-045-SB-1.5	1,4-Dioxane	0.1	24	no
B7-045-SB-5	1,4-Dioxane	0.098	24	no
B7-047-SB-1	1,4-Dioxane	0.11	24	no
B7-051-SB-1	Benzaldehyde	0.83	120,000	no
	Chromium VI	1.2	6.3	no
B7-051-SB-5	Benzaldehyde	0.84	120,000	no
	Chromium VI	1.3	6.3	no
B7-052-SB-1	Benzaldehyde	0.69	120,000	no
	Chromium VI	1	6.3	no
B7-052-SB-4	1,4-Dioxane	0.1	24	no
	Benzaldehyde	0.74	120,000	no
	Chromium VI	1.1	6.3	no
B7-053-SB-1	Chromium VI	1.1	6.3	no
B7-053-SB-2	Chromium VI	1.2	6.3	no
B7-054-SB-2	Chromium VI	1.2	6.3	no
B7-054-SB-5	Chromium VI	1.2	6.3	no
B7-056-SB-1	Chromium VI	1.2	6.3	no
B7-056-SB-2	Chromium VI	1.2	6.3	no
B7-056-SB-5	Chromium VI	1.1	6.3	no
B7-058-SB-1	Chromium VI	1.2	6.3	no
B7-058-SB-5	Chromium VI	1.2	6.3	no
B7-059-SB-1	Chromium VI	1.2	6.3	no
B7-059-SB-2	Chromium VI	1.4	6.3	no

APPENDIX A

Parcel B7 & Parcel B25 Sampling Plan Summary
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

Table 1 - Parcel B7 Soil Samples

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
Yacht Club Rail Yard Fill Materials	REC 12B, Finding 247	REC Location Map	During the Phase I ESA site visit conducted by Weaver Boos, several piles of fill soil or debris was observed along a small rail yard. The source and contents of these fill materials are unknown as well as their extent into the subsurface.	3	B7-001 through B7-003	Total depth of 20 feet or groundwater.	0-1', 1-2', 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'), Pesticides (0-1' and 1-2')
B.C.S.W.M. Pond		Drawing 5129	Investigate potential impacts related to any historical activities which may have occurred in the vicinity of the B.C.S.W.M. Pond (potential leaks or releases).	3	B7-004 through B7-006	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'), PFOS/PFOA
Pesticide Storage Shed		Site Walk/Aerial Imagery	Investigate potential impacts related to pesticide storage shed at the Baltimore County Vehicle Maintenance Facility (potential leaks or releases).	2	B7-007 and B7-008	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'), Pesticides (0-1')
Oil Recovery Unit		Drawing 5030	Investigate potential impacts related to any historical activities which may have occurred in the vicinity of the Oil Recovery Unit (potential leaks or releases).	3	B7-009 through B7-011	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')
Pump House		Drawing 5030	Investigate potential impacts related to any historical activities which may have occurred in the vicinity of the Pump House (potential leaks or releases).	2	B7-012 and B7-013	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')

Parcel B7 & Parcel B25 Sampling Plan Summary
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

Table 1 - Parcel B7 Soil Samples

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
Scrap Storage Yard		Drawing 5042	Investigate potential impacts related to any historical activities which may have occurred in the vicinity of the Scrap Storage Yard (potential leaks or releases).	2	B7-014 and B7-015	Total depth of 20 feet or groundwater.	0-1', 1-2', 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'), Pesticides (0-1' and 1-2')
Tank - Unknown Contents		Drawing 5030 & Aerials	Investigate potential impacts related to any historical activities which may have occurred on the site of the Tanks (potential leaks or releases).	4	B7-016 through B7-019	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')
Baltimore County Vehicle Maintenance Shops		Drawing 5129	Investigate potential impacts related to any historical activities which may have occurred at the Baltimore County Vehicle Maintenace Shops (potential leaks or releases).	2	B7-020 and B7-021	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')
Fire Training Area		Drawing 5129	Investigate potential impacts related to any historical activities which may have occurred in the Fire Training Area (potential leaks or releases).	2	B7-022 and B7-023	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'), PFOS/PFOA
Fuel Above Ground Storage Tanks		Site Walk/Aerial Imagery	Investigate potential impacts related to the diesel and gasoline storage tanks located at the Baltimore County Vehicle Maintenance Facility (potential leaks or releases).	2	B7-024 and B7-025	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')
B.C.S.W.M. Pond Sediment		Site Walk/Aerial Imagery	Investigate potential impacts related to firefighting foams which may have been used in the past during drills and training at the Site.	2	B7-026 and B7-027	Total depth of 12 inches.	Top 12" of sediment at each location	VOC^, SVOC, Metals, DRO/GRO, O&G, PCBs, PFOS/PFOA

Parcel B7 & Parcel B25 Sampling Plan Summary
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

Table 1 - Parcel B7 Soil Samples

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
Parcel B7 Coverage/Historic Golf Course		1952 Aerial Imagery	Investigate potential impacts related to the historic golf course and any historical activities which may have occurred on the Site (potential leaks or releases).	17	B7-028 through B7-044	Total depth of 20 feet or groundwater.	0-1', 1-2', 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'), Pesticides (0-1' and 1-2')
Parcel B7 Coverage/Fire Training Area			Investigate potential impacts related to fire fighting activities and any historical acitivities which may have occurred on the Site (potential leaks or releases).	1	B7-045	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'), PFOS/PFOA
Parcel B7 Coverage			Investigate potential impacts related to any historical acitivities which may have occurred on the Site (potential leaks or releases).	7	B7-046 through B7-052	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')
Former Rail Yard (Fill Materials) **Supplemental**		Drawing 5042	Investigate potential impacts related to fire fighting activities and any historical acitivities which may have occurred in the vicinity of the former Rail Yard (potential leaks or releases).	2	B7-053 and B7-054	Total depth of 20 feet or groundwater.	0-1', 1-2', 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'), Pesticides (0-1' and 1-2')
General Coverage/ Historic Golf Course **Supplemental**		Current/ 1952 Aerial Imagery	Investigate potential impacts related to the historic golf course and any historical activities which may have occurred on the Site (potential leaks or releases).	7	B7-055 through B7-061	Total depth of 20 feet or groundwater.	0-1', 1-2', 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'), Pesticides (0-1' and 1-2')

Parcel B7 & Parcel B25 Sampling Plan Summary
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

Table 1 - Parcel B7 Soil Samples

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
Abandoned Tank - Unknown Contents **Supplemental**		Site Visit	Investigate potential impacts related to the abandoned tank with unknown contents (potential leaks or releases).	2	B7-062 and B7-063	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')
MDE Request/ Possible Adjacent Property Migration **Supplemental**			Investigate potential impacts related to any historical acitivities which may have occurred on adjacent property (potential leaks or releases migrations).	2	B7-064 and B7-065	Total depth of 20 feet or groundwater.	0-1', 1-2', 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'), Pesticides (0-1' and 1-2')
			Total:	65				

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

Parcel B7 & Parcel B25 Sampling Plan Summary
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

Table 2 - Parcel B25 Soil Samples

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
Heating Oil Above Ground Storage Tank - Pleasant Yacht Club		Site Walk/ Aerial Imagery	Investigate potential impacts related to the above ground heating oil storage tank (potentials spills or releases).	2	B25-001 and B25-002	Total depth of 20 feet or groundwater.	0-1', 1-2', 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'), Pesticides (0-1' and 1-2')
Playset Area - Pleasant Yacht Club		Site Walk/ Aerial Imagery	Investigate potential soil contamination at yacht club recreation areas at the request of MDE.	2	B25-003 and B25-004	Total depth of 20 feet or groundwater.	0-1', 1-2', 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'), Pesticides (0-1' and 1-2')
Heating Oil Above Ground Storage Tank - North Point Yacht Club		Site Walk/ Aerial Imagery	Investigate potential impacts related to the above ground heating oil storage tank (potentials spills or releases).	2	B25-005 and B25-006	Total depth of 20 feet or groundwater.	0-1', 1-2', 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'), Pesticides (0-1' and 1-2')
Playset Area - North Point Yacht Club		Site Walk/ Aerial Imagery	Investigate potential soil contamination at yacht club recreation areas at the request of MDE.	2	B25-007 and B25-008	Total depth of 20 feet or groundwater.	0-1', 1-2', 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'), Pesticides (0-1' and 1-2')

Parcel B7 & Parcel B25 Sampling Plan Summary
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

Table 2 - Parcel B25 Soil Samples

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
Horseshoe Pits - North Point Yacht Club		Site Walk/ Aerial Imagery	Investigate potential soil contamination at yacht club recreation areas at the request of MDE.	2	B25-009 and B25-010	Total depth of 20 feet or groundwater.	0-1', 1-2', 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'), Pesticides (0-1' and 1-2')
Parcel B25 Coverage			Investigate potential impacts related to boat storage and any historical activities which may have occurred on the Site (potential leaks or releases).	4	B25-011 through B25-014	Total depth of 20 feet or groundwater.	0-1', 1-2', 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'), Pesticides (0-1' and 1-2')
			Total:	14				

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

Parcel B7 & Parcel B25 Sampling Plan Summary
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

Table 3 - Parcel B7 (Northern Section) Groundwater Samples

Source Area Description	REC & Finding/ SWMU/ AOC	Figure or Drawing of Reference	Condition of Exisiting Well	Number of Locations	Sample Locations	Boring Depth	Screen Interval	Analytical Parameters: Groundwater Samples
Former Rail Yard (Fill Materials)		Drawing 5042	*N/A*	1	B7-053	Total depth of 7 feet below the water table.	7 feet below water table to 3 feet above water table.	VOC, SVOC, Metals (dissolved), Cyanide (total), O&G, DRO/GRO
General Coverage/ Historic Golf Course		Current/ 1952 Aerial Imagery	*N/A*	1	B7-060	Total depth of 7 feet below the water table.	7 feet below water table to 3 feet above water table.	VOC, SVOC, Metals (dissolved), Cyanide (total), O&G, DRO/GRO
MDE Request/ Possible Adjacent Property Migration			*N/A*	2	B7-064 and B7-065	Total depth of 7 feet below the water table.	7 feet below water table to 3 feet above water table.	VOC, SVOC, Metals (dissolved), Cyanide (total), O&G, DRO/GRO
Area B GW Well: Former Rail Yard (Fill Materials)	REC 12B, Finding 247	Drawing 5042	Good	1	SW-046-MWS	15.5 feet bgs	5.5 to 15.5 feet bgs	VOC, SVOC, Metals (dissolved and total), Cyanide (total), O&G, DRO/GRO
			Total:	5				

VOC - Volatile Organic Compounds (Target Compound List)
SVOCs - Semivolatile Organic Compounds (Target Compound List)
Metals - (Target Analyte List plus Hexavalent Chromium and Cyanide)
DRO/GRO - Diesel Range Organics/Gasoline Range Organics
O&G - Oil & Grease
bgs - Below Ground Surface

APPENDIX B

ARM Group LLC
Engineers and Scientists

Boring ID: B7-001-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/2/18
Weather	: Sunny 80s
Northing (US ft)	: 569597.09
Easting (US ft)	: 1464563.28

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0		5.5	B7-001-SB-1	(0-2.5') Non-native SAND with SLAG GRAVEL, fine to coarse, medium dense, dark brown, dry, no plasticity, no cohesion	SW/GW	
		21.3	B7-001-SB-2			
	100	184.7		(2.5-3') SILT with SAND, hard, light grayish brown, dry, no plasticity, no cohesion	ML	
		1.7		(3-5.8') SILTY SAND grading to SAND, medium to coarse, very pale brown to pale brown, moist to very moist, no plasticity, no cohesion	SM/SW	
5		0.1	B7-001-SB-5			
		2.0		(5.8-17.6') CLAY with trace SAND, hard grading to soft, very pale brown with reddish yellow mottling then gray from 13-17.6' bgs, dry grading to very moist, low plasticity, cohesive	CL	
	100	0.8				
		1.2				
		3.1				
		2.7				
10		0.5				
		0.0				
	90	0.1				
		0.1				
		0.0				
15		0.0				
		0.0				
	70	0.0				Wet at 17.6' bgs
		0.0		(17.6-20') SAND, medium dense, very pale brown to yellowish red, wet, no plasticity, no cohesion	SW	
		0.0				
20				End of boring		

Boring terminated at 20' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-002-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/2/18
Weather	: Sunny 80s
Northing (US ft)	: 569509.59
Easting (US ft)	: 1464856.34

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.0	B7-002-SB-1	(0-1') SLAG, SAND and GRAVEL-sized, loose, dark brown, dry, no plasticity, no cohesion	SW/GW	
		0.0	B7-002-SB-2	(1-13') CLAY with SAND then CLAY, hard, light brown then pale brown with some reddish yellow mottling, dry, low plasticity, cohesive		
	96	0.0				
		0.0				
		0.0				
5		11.6				
		0.1				
	100	5.5			CL	
		17.3	B7-002-SB-9			
		6.3	B7-002-SB-10			
10						
		0.0				
		0.0				
	90	0.0				
		0.0		(13-14.8') SILT grading to SILT with SAND, soft, light gray, low plasticity, cohesive	ML	
		0.0				
15				(14.8-20') SAND, medium to coarse, medium dense, very pale brown grading to yellowish red, wet, no plasticity, no cohesion		Wet at 14.8' bgs
		-				
		-				
	50	0.0			SW	
		0.0				
		0.0				
20				End of boring		

Boring terminated at 20' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-003-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/2/18
Weather	: Sunny 80s
Northing (US ft)	: 569310.63
Easting (US ft)	: 1465008.07

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		-	B7-003-SB-1	(0-2.2) SLAG, SAND and GRAVEL-sized, fine to very coarse, loose, brown, dry, no plasticity, no cohesion	SW/GW	
		22.2	B7-003-SB-2			
	92	38.6		(2.2-19') CLAY, hard to very firm, brownish gray grading to very pale brown with reddish yellow mottling, dry to trace moist, low plasticity, cohesive		
		1.2				
		1.0				
5		19.0	B7-003-SB-6			
		3.6				
	100	7.2				
		2.0				
		0.5	B7-003-SB-10			
10		-			CL	
		1.9				
	80	0.8				
		0.6				
		1.4				
15		0.0				
		2.6				
	96	1.4				
		0.0				
		0.0		(19-20') SAND, medium to coarse, medium dense, yellowish red, wet, no plasticity, no cohesion	SW	Wet at 19' bgs
20				End of boring		

Boring terminated at 20' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-004-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: T. Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/31/18
Weather	: Sunny 50s
Northing (US ft)	: 566948.42
Easting (US ft)	: 1463104.33

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.8	B7-004-SB-1	(0-0.5') SILT with SAND, loose, dark brown, dry, no plasticity, no cohesion	ML	ORGANICS from 0.3-0.8' bgs
		2.3		(0.5-9.7') CLAY with SILT then CLAY with SAND from 7.7-9.7' bgs, firm, very pale brown, dry, no plasticity, no cohesion		
	94	0.6				
		0.6				
		0.1	B7-004-SB-5			
5					CL	
		0.9				
		0.4				
	100	0.8				
		0.6				
		0.7	B7-004-SB-10			
10				(9.7-10') SAND, fine, dense, very pale brown to light gray, dry, no plasticity, no cohesion	SP	
		-				
		-				
	40	-				
		0.6		(13-14.1') SAND, fine, dense, very pale brown to light gray, wet, no plasticity, no cohesion	SP	Wet at 13' bgs
		0.8		(14.1-15') CLAY, soft, light gray to very pale brown, moist, low plasticity, cohesive	CL	
15				End of boring		

Boring terminated at 15' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-005-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: T. Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/30/18
Weather	: Sunny 60s
Northing (US ft)	: 566795.47
Easting (US ft)	: 1463231.27

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		-	B7-005-SB-1	(0-0.3') SILT with ORGANICS, soft, dark brown, dry, no plasticity, no cohesion	ML	
				(0.3-1') SAND, coarse, very pale brown, dry, no plasticity, no cohesion	SP	
		-		(1-4.7') SILT with SAND, very soft, light brown, moist, no plasticity, no cohesion		
	72	9.1			ML	
		0.8				
		1.1	B7-005-SB-5			
5				(4.7-5') CLAY, dense, gray, dry, low plasticity, cohesive	CL	
		0.5		(5-5.4') SILT with SAND, very soft, light brown, moist, no plasticity, no cohesion	ML	
		0.7		(5.4-7.7') CLAY with SAND and SILT, firm, light brown, dry, low plasticity, cohesive	CL	
	100	0.6				
		1.1		(7.7-10.5') SILT with SAND grading to CLAY, firm grading to soft, gray grading to light brown, dry, no plasticity grading to low plasticity, no cohesion grading to cohesive	ML/CL	
		3.1	B7-005-SB-10			
10						
		-		(10.5-11') CLAY with SAND, firm, brown, dry, low plasticity, cohesive	CL	
		0.7		(11-13.4') CLAY, soft, light gray with yellowish red, moist, low plasticity, cohesive	CL	
	80	1.1				Wet at 13.7' bgs
		0.7		(13.4-15') SAND, fine, dense grading to loose, light gray, wet, no plasticity, no cohesion	SP	
		0.5				
15				End of boring		

Boring terminated at 15' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-006-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: T. Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/31/18
Weather	: Sunny 50s
Northing (US ft)	: 566852.98
Easting (US ft)	: 1463099.91

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.1	B7-006-SB-1	(0-0.4') SILT with SAND, loose, dark brown, dry, no plasticity, no cohesion	ML	ORGANICS from 0.3-0.4' bgs
				(0.4-8.2') CLAY with SILT grading to CLAY, firm, dark brown grading to brown then grading to light gray, dry, low plasticity, cohesive		
		0.1				
	94	0.1				
		1.2				
		0.1	B7-006-SB-5		CL	
5						
		1.1				
		2.7				
	100	1.3				Wet at 8.6' bgs
		0.5		(8.2-10') SAND, fine, dense, light gray, moist to wet at 8.6' bgs, no plasticity, no cohesion	SP	
		0.5				
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-007-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: T. Moyer
Drilling Equipment	: Geoprobe 7822DT

Date	: 03/07/19
Weather	: Cloudy, 30s
Northing (US ft)	: 566592.84
Easting (US ft)	: 1463160.47

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		-	B7-007-SB-1	(0-0.3') ASPHALT	NA	
				(0.3-0.6') SAND with GRAVEL, medium dense, dark green, moist, no plasticity, no cohesion	SW/GW	
		5.2		(0.6-4') SAND with CLAY, dense, brown with reddish yellow, dry, no plasticity, no cohesion		
	86	21.3			SW-SC	
		6.8				
		6.4	B7-007-SB-5	(4-5') CLAYEY SAND, dense, dark brown, moist, no plasticity, no cohesion	SC	
5						Strong odor at 5' bgs
		0.3		(5-8') CLAY with trace SAND, hard, reddish yellow and brown, dry, low plasticity, cohesive		
		0.4			CL	
	98	8.0				
		7.1		(8-12') CLAY, soft, light gray and reddish yellow, very moist, low plasticity, cohesive		
		5.8				
10					CL	
		0.0				
		0.0				Wet at 12' bgs
	80	0.0		(12-14') CLAYEY SAND to SAND, dense, reddish yellow, wet, no plasticity, no cohesion		
		0.0			SC/SW	
		0.0		(14-15') CLAY, firm, gray, moist, low plasticity, cohesion	CL	
15				End of boring		

Boring terminated at 15' bgs due to encountering groundwater.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-008-SB

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: T. Moyer
Drilling Equipment	: Geoprobe 7822DT

Date	: 03/08/19
Weather	: Cloudy, 30s
Northing (US ft)	: 566563.09
Easting (US ft)	: 1463161.09

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.6	B7-008-SB-1	(0-0.5') ASPHALT	NA	
				(0.5-3.2') CLAYEY SAND with some GRAVEL, dense, reddish yellow, dry, no plasticity, no cohesion		
		7.6				
	88				SC	No water encountered
		17.4				
		4.8	B7-008-SB-4	(3.2-4') CLAY with SAND, firm, greenish brown, moist, low plasticity, cohesive	CL	Sewage-like odor
				End of boring		
5						

Boring terminated at 4' bgs due to refusals.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-009-SB

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/5/18
Weather	: Cloudy 70s
Northing (US ft)	: 567338.71
Easting (US ft)	: 1463896.59

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	82	-	B7-009-SB-1	(0-0.5') SLAG, SAND and GRAVEL-sized, very dark brown, dry, no plasticity, no cohesion	GW	
		28.6		(0.5-1') SILT with SAND, soft, dark brown, moist, low plasticity, cohesive	ML	
		21.8		(1-17.5') CLAY with some SAND, fine, very firm grading to soft, reddish yellow with some pale brown mottling, dry to moist, low plasticity, cohesive		
		13.5				
		0.4				
5		21.3				
		35.2	B7-009-SB-7			
	100	29.4				
		11.8				
		2.6	B7-009-SB-10		CL	
10		-				
		11.4				
	90	0.0				
		2.2				
		0.0				
15		-				
		0.0				
	80	0.0		(17.5-20') CLAY, soft, gray, very moist, low plasticity, cohesive	CL	No water encountered
		0.0				
		0.0				
20				End of boring		

Boring terminated at 20' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-010-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/8/18
Weather	: Cloudy 80s
Northing (US ft)	: 567401.01
Easting (US ft)	: 1463903.54

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	50	-	B7-010-SB-1	(0-13.2') SLAG, GRAVEL-sized with trace SILT, fine to coarse with some SAND-sized, medium dense to dense, brown and gray then black and gray at 8-10' bgs, very moist then wet at 5' bgs, no plasticity, no cohesion	GW	
		-				
		1.2				
		0.0				
		0.0	B7-010-SB-5			
5						Wet at 5' bgs
	40	-				
		-				
		-				Light odor from 8-10' bgs
		1.7				
		2.0				
10						
	40	-				
		-				
		-				
		0.0		(13.2-20') CLAY, firm to very firm then soft from 19-20' bgs, pale brown with some reddish yellow mottling then light brown from 19-20' bgs, moist, low plasticity, cohesive	CL	
		0.0				
15						
	80	-				
		0.0				
		0.0				
		0.0				
		0.0				
20				End of boring		

Boring terminated at 20' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-011-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/5/18
Weather	: Cloudy 70s
Northing (US ft)	: 567308.56
Easting (US ft)	: 1463912.39

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0		13.3	B7-011-SB-1	(0-1.1') SLAG, GRAVEL-sized, fine to coarse, loose, brown and dark gray, dry, no plasticity, no cohesion	GW	
		0.0		(1.1-6.3') CLAY, very firm to hard, light grayish brown with reddish yellow mottling, dry to moist, low plasticity, cohesive		
	94	0.0				
		0.0			CL	
		0.0				
5		8.7	B7-011-SB-6			
		0.0		(6.3-6.6') SAND, very fine to coarse, medium dense, yellowish red, moist, no plasticity, no cohesion	SW	
	100	0.0		(6.6-17.4') CLAY, hard grading to soft, light grayish brown with reddish yellow mottling grading to pale brown, dry grading to very moist, low plasticity, cohesive		
		0.0				
		0.0	B7-011-SB-10			
10		0.4				No water encountered
		11.3			CL	
	94	0.8				
		0.4				
		0.0				
15		0.0				
		0.0				
	100	0.0		(17.4-20') CLAY, soft, gray, very moist, low plasticity, cohesive		
		0.0			CL	
		0.0				
20				End of boring		

Boring terminated at 20' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-012-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 09/18/19
Weather	: Sunny 70s
Northing (US ft)	: 567059.25
Easting (US ft)	: 1463738.09

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	90	-	B7-012-SB-1	(0-2') SAND, very fine, very dense, brown and light brown, dry, non-plastic, non-cohesive	SP	
		-				
		0.1		(2-5.5') CLAY with SAND and SILT, hard, brown and light brown, dry, low plasticity, cohesive	CL	
		0.1				
		0.1	B7-012-SB-5			
5						
	80	-		(5.5-9') CLAY with SAND, hard, brown and light brown, dry, low plasticity, cohesive	CL	
		-				
		0.1				
		0.1				
		0.1		(9-10') SAND, very fine, very dense, red then black from 9.1-9.7' bgs and yellowish brown from 9.7-10' bgs, wet, non-plastic, non-cohesive	SP	Wet at 9' bgs
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-013-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 09/18/19
Weather	: Sunny 70s
Northing (US ft)	: 567031.48
Easting (US ft)	: 1463742.26

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0		-	B7-013-SB-1	(0-7.4') SAND, fine, and SILT, medium dense to loose, gray, dry, non-plastic, non-cohesive		
		1.6				
	80	1.6				
		4.0	B7-013-SB-4		SP-SM	
		3.4				
5		0.6				
		2.7				
	100	1.5		(7.4-7.7') CLAY with GRAVEL lenses, hard, light brown, dry, low plasticity, cohesive	CL/GW	
		2.6		(7.7-9.7') CLAY, hard, light gray, dry, low plasticity, cohesive	CL	
		0.1				Wet at 9.7' bgs
10		-		(9.7-12.8') SAND, very fine, very dense, yellowish red and light gray with some brown from 10.3-12.6' bgs then dark gray from 12.6-12.8' bgs, wet, non-plastic, non-cohesive	SP	
		-				
	94	-				
		-		(12.8-15') CLAY, firm to hard, dark gray, moist, low plasticity, cohesive	CL	
		-				
15				End of boring		

Boring terminated at 15' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-014-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/1/18
Weather	: Sunny 80s
Northing (US ft)	: 569452.48
Easting (US ft)	: 1464509.50

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	92	0.0	B7-014-SB-1	(0-2.3') SLAG, SAND and GRAVEL-sized, medium dense, brown to dark brown, dry grading to wet, no plasticity, no cohesion	GW	
		1.3	B7-014-SB-2			
		0.9		(2.3-5') CLAY with SAND, hard, brownish gray grading to gray, dry, low plasticity, cohesive	CL	
		0.1				
		0.0	B7-014-SB-5			
5	100	0.0		(5-19') CLAY with SAND, hard, pale brown with reddish yellow mottling, moist, low plasticity, cohesive	CL	Thin SAND layer at 7.5' bgs
		0.3				
		0.3				
		0.2				
		0.1	B7-014-SB-10			
10	34	-				
		-				
		-				
		0.0				
		0.0				
15	100	0.0				
		0.0				
		0.0				
		0.0				
		0.0				
		0.0		(19-20') SAND, fine to medium, yellowish red, wet, no plasticity, no cohesion	SW	Wet at 19' bgs
20				End of boring		

Boring terminated at 20' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-015-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/1/18
Weather	: Sunny 80s
Northing (US ft)	: 569345.71
Easting (US ft)	: 1464789.02

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0		-	B7-015-SB-1	(0-2.2') SLAG, GRAVEL-sized, with SAND, fine to coarse, dense, dark brown with gray, dry grading to wet, no plasticity, no cohesion	GW	
		0.4	B7-015-SB-2			
	82	2.8		(2.2-4.5') SILT with some SAND, very firm to hard, brownish gray and light brown, dry to moist, low plasticity, cohesive	ML	
		0.0				
		0.0	B7-015-SB-5			
5		0.0		(4.5-9.8') CLAY with SAND, very firm to hard, gray and light brown then light brown from 8.5-9.8' bgs, dry to moist, low plasticity, cohesive	CL	
	96	0.0				No water encountered
		0.3				
		0.0				
		0.0	B7-015-SB-10			
10		0.0		(9.8-10') SAND, fine to medium, yellowish red, wet, no plasticity, no cohesion	SW	
		0.0		(10-20') CLAY, soft then hard, very pale brown grading to pale brown with reddish yellow mottling, dry, low plasticity, cohesive		
	100	0.0				
		0.0				
		0.0				
15		-			CL	
		-				
	100	0.0				
		0.0				
		0.0				
20				End of boring		

Boring terminated at 20' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-016-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 09/18/19
Weather	: Sunny 70s
Northing (US ft)	: 567084
Easting (US ft)	: 1463822

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	100	0.2	B7-016-SB-1	(0-2') CLAY with SAND and SILT, hard, brown, dry, low plasticity, cohesive	CL	Organics from 0-2' bgs
		0.3				
		0.5		(2-8.5') CLAY with SAND, hard, brown, dry, low plasticity, cohesive		
		0.1				
		0.3				
5		0.2			CL	No water encountered
		0.7				
	100	4.9	B7-016-SB-8			
		4.5				
		0.5	B7-016-SB-10	(8.5-10.6') SAND, very fine, very dense, reddish yellow, dry, non-plastic, non-cohesive	SP	
10		-		(10.6-19') CLAY, firm to hard then grading to firm from 15.3-19' bgs, gray and brown with some yellowish red, dry, low plasticity, cohesive		
	100	-				
		-				
		-				
15		-			CL	
		-				
	94	-				
		-				
		-		(19-20') CLAY, firm to soft, dark gray, dry, low plasticity, cohesive	CL	
20				End of boring		

Boring terminated at 15' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-017-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 09/18/19
Weather	: Sunny 70s
Northing (US ft)	: 567037.73
Easting (US ft)	: 1463861.70

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0		1.5	B7-017-SB-1	(0-2.5') CLAY with SAND and SILT, firm to hard, brown and light brown, dry, low plasticity, cohesive	CL	Organics from 0-2.5' bgs
	100	239.9				
		420.1		(2.5-8') CLAY with SAND, hard, brown and light brown, dry, low plasticity, cohesive	CL	
		138.9	B7-017-SB-4			
		85.6				
5		13.5				
		83.5				
	100	54.1				
		135.5		(8-10.5') CLAY, firm to soft, gray, dry, low plasticity, cohesive	CL	
		103.7	B7-017-SB-10			
10		-		(10.5-13.6') CLAY with SAND, hard, brown and light brown, dry, low plasticity, cohesive	CL	
		-				
	80	-				
		-				
		-		(13.6-15') SAND, very fine, very dense, light gray then reddish yellow from 14-15' bgs, wet, non-plastic, non-cohesive	SP	Wet at 13.6' bgs
15				End of boring		

Boring terminated at 15' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-018-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 200102067
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/5/18
Weather	: Cloudy 70s
Northing (US ft)	: 567325.05
Easting (US ft)	: 1463752.73

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		84.0	B7-018-SB-1	(0-0.2') SILT with SAND, soft, dark brown, very moist, low plasticity, cohesive	ML	
		5.1		(0.2-2.5') SLAG, GRAVEL-sized, with SAND, fine to coarse, loose to medium dense, gray and dark brown, dry, no plasticity, no cohesion	GW	Trace ORGANICS 0-0.2' bgs
	100	15.3		(2.5-5.7') CLAY grading to CLAY with SAND, hard, dry grading to very moist, light brownish gray with reddish yellow mottling, low plasticity, cohesive		
		0.2			CL	
		0.0	B7-018-SB-5			
5						Wet at 5.7' bgs
		5.2		(5.7-6.5') CLAYEY SAND grading to SAND, dense, reddish yellow, wet, no plasticity, no cohesion	SC/SW	
		0.4		(6-5-10') CLAY with trace SAND, hard, light brownish gray with reddish yellow mottling, dry, low plasticity, cohesive		
	100	9.4				
		5.9			CL	
		1.7				
10				End of boring		

Boring terminated at 10' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-019-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/5/18
Weather	: Cloudy 70s
Northing (US ft)	: 567322.28
Easting (US ft)	: 1463723.57

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		1.2	B7-019-SB-1	(0-2') SLAG, GRAVEL-sized, fine to coarse, with SAND and CLAY, loose, dark brown, dry, no plasticity, no cohesion	GW	2" CLAY lens at 1' bgs
		0.5				
	98	0.5		(2-4') CLAYEY SAND, dense, light grayish brown with reddish yellow, dry, no plasticity, no cohesion	SC	
		1.5				
		0.0		(4-8.5') CLAY with SAND grading to CLAY, hard, light grayish brown with reddish yellow mottling, dry, low plasticity, cohesive	CL	
5		0.0				
		0.8				
	100	6.8	B7-019-SB-8			Wet at 8.5' bgs
		0.1		(8.5-10') SAND with CLAY, dense, reddish yellow to pale brown, wet, no plasticity, no cohesion	SW-SC	
		0.0				
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-020-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: T. Moyer
Drilling Equipment	: Geoprobe 7822DT

Date	: 03/08/19
Weather	: Cloudy, 30s
Northing (US ft)	: 566467.85
Easting (US ft)	: 1462794.17

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0				(0-0.5') ASPHALT	NA	
		-	B7-010-SB-1.5	(0.5-0.8') SAND with GRAVEL, loose to medium dense, brown and dark green, dry, no plasticity, no cohesion	SW/GW	
		0.2		(0.8-2.5') CLAYEY SAND, dense, brown, dry, no plasticity, no cohesion	SC	
	78	0.1		(2.5-10') CLAY with SAND, light brown then light brown with reddish yellow, dry to moist, low plasticity, cohesive		
		0.1				
		0.0	B7-020-SB-5			
5		0.2			CL	
		0.1				
	100	0.1				
		0.1				
		0.0	B7-020-SB-10			
10		0.1		(10-11.2') SAND with CLAY, very fine to medium, dense, light gray and pale brown, wet, no plasticity, no choesion	SW-SC	Wet at 10' bgs
		0.5		(11.2-15') CLAY with trace SAND, very firm to firm, light brown with reddish yellow, moist, low plasticity, cohesive		
	100	0.0			CL	
		0.0				
		0.0				
15				End of boring		

Boring terminated at 15' bgs due to encountering groundwater.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-021-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: T. Moyer
Drilling Equipment	: Geoprobe 7822DT

Date	: 03/08/19
Weather	: Cloudy, 30s
Northing (US ft)	: 566324.99
Easting (US ft)	: 1463070.34

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0		-	B7-021-SB-1	(0-1.5') SAND with GRAVEL, dense, brownish green and brown, dry, no plasticity, no cohesion	SW/GW	
		0.6		(1.5-4') CLAYEY SAND with some GRAVEL, dense, brown, dry to moist, no plasticity, no cohesion	SC	
	82	3.6				
		2.5	B7-021-SB-4			
		3.7		(4-4.3') BRICK, GRAVEL-sized with SAND, loose, light brown, wet, no plasticity, no cohesion	GP	Wet at 4' bgs
5		-		(4.3-5.7) SAND with CLAY, medium dense, light brown, wet, no plasticity, no cohesion	SW-SC	
		0.0		(5.7-10') CLAY, hard grading to soft, pale brown with some reddish yellow, moist to very moist, low plasticity, cohesive	CL	
	90	0.4				
		0.0				
		0.0				
10				End of boring		
15						

Boring terminated at 10' bgs due to encountering groundwater.

ARM Group LLC
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Boring ID: B7-022-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: T. Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/30/18
Weather	: Sunny 60s
Northing (US ft)	: 566689.37
Easting (US ft)	: 1463268.79

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		-		(0-0.6') ASPHALT	NA	
			B7-022-SB-1.5	(0.6-1.5') GRAVEL with SAND, medium dense, gray, no plasticity, no cohesion	GW/SW	
		1.0		(1.5-2.5') SAND, fine, brown, dry, no plasticity, no cohesion	SP	
	84	2.8				
		2.7		(2.5-4.5') SILT with SAND, mica and rock pieces throughout, medium dense, brown to dark gray, dry, no plasticity, no cohesion	ML	
		3.0	B7-022-SB-5			
5				(4.5-7.4') CLAY, firm, dark brown grading to light brown, dry, low plasticity, cohesive	CL	
		1.9				
		1.7				
	96	1.7		(7.4-13.8') CLAY, firm grading to soft, light gray grading to brown, moist, low plasticity, cohesive	CL	
		0.8				
		0.9	B7-022-SB-10			
10		-				
		-				
	52	-				Wet at 13.8' bgs
		2.6				
		0.9		(13.8-15') SAND, fine, loose to medium dense, light gray from 13.8-14.8' bgs and yellowish red from 14.8-15' bgs, wet, no plasticity, no cohesion	SP	
15				End of boring		

Boring terminated at 15' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-023-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/30/18
Weather	: Sunny 60s
Northing (US ft)	: 566746.87
Easting (US ft)	: 1463152.24

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	94	0.2		(0-0.5') ASPHALT	GW	
			B7-023-SB-1.5	(0.5-3.9') SILT with SAND, fine, medium dense, brown, dry, no plasticity, no cohesion	ML	
		1.0				
		0.4				
		0.8				
				(3.9-5.6') SLAG, SAND and GRAVEL-sized, dense, gray, moist to wet at 5.4' bgs, no plasticity, no cohesion	GW	Wet at 5.4' bgs
		0.7	B7-023-SB-5			
5						
		0.8		(5.6-9.2') CLAY, firm, gray, wet, low plasticity, cohesive	CL	
	100	1.2				
		1.0				
		0.4				
		0.4		(9.2-10') CLAY with SAND, firm to soft, gray and very pale brown, wet, low plasticity, cohesive	CL	
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-024-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: T. Moyer
Drilling Equipment	: Geoprobe 7822DT

Date	: 03/08/19
Weather	: Cloudy, 30s
Northing (US ft)	: 566361.65
Easting (US ft)	: 1463105.08

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0		-	B7-024-SB-1	(0-0.4') ASPHALT	NA	
				(0.4-0.8') SAND with GRAVEL, medium dense, dark green and brown, dry, no plasticity, no cohesion	SW/GP	
		1.2		(0.8-5') CLAYEY SAND, dense, brown to reddish yellow then light grayish brown at 4' bgs, dry to moist, no plasticity, no cohesion		
	80	4.4			SC	
		10.5	B7-024-SB-4			BRICK GRAVEL at 4' bgs
		3.7				
5		2.6		(5-8') CLAY with trace SAND, hard, light brown and reddish yellow, dry, low plasticity, cohesive		Light, gas-like odor at 5' bgs
		3.1			CL	
	100	5.6				
		0.0		(8-9.4') CLAY with SAND, soft, light brownish gray, very moist, low plasticity, cohesive	CL	
		0.0		(9.4-10') SAND with CLAY, medium dense, gray, wet, no plasticity, no cohesion	SW-SC	Wet at 9.4' bgs
10				End of boring		
15						

Boring terminated at 10' bgs due to encountering groundwater.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-025-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: T. Moyer
Drilling Equipment	: Geoprobe 7822DT

Date	: 03/08/19
Weather	: Cloudy, 30s
Northing (US ft)	: 566394.98
Easting (US ft)	: 1463087.20

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		-	B7-025-SB-1	(0-0.4') ASPHALT	NA	
				(0.4-1.3') SAND with GRAVEL, loose, brown and dark green, dry, no plasticity, no cohesion	SW/GP	
		1.0		(1.3-4') CLAYEY SAND with trace GRAVEL, dense, grayish brown		
	84	7.5			SC	
		1.5	B7-025-SB-4			
		4.4		(4-8.8') CLAY with trace SAND, very firm, brown, dry, low plasticity, cohesive		
5		0.8				
		1.1			CL	
	100	0.4				
		1.3				
		0.4		(8.8-10') SAND with CLAY, very fine to medium, dense, pale brown, wet, no plasticity, no cohesion	SW-SC	Wet at 8.8' bgs
10				End of boring		
15						

Boring terminated at 10' bgs due to encountering groundwater.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-028-SB

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/4/18
Weather	: Cloudy 80s
Northing (US ft)	: 568573.50
Easting (US ft)	: 1463382.15

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		7.5	B7-028-SB-1	(0-0.3') SILTY SAND, loose, brown, dry, no plasticity, no cohesion	SM	
				(0.3-0.9') SAND with SLAG, GRAVEL-sized, loose, brown, dry, no plasticity, no cohesion	SW/GW	Heavy ORGANIC matter 0-0.3' bgs
		0.3	B7-028-SB-2	(0.9-4') CLAY, hard, pale brown with reddish yellow mottling and some brown, dry, low plasticity, cohesive		
	100	10.7			CL	
		2.2				
		0.2		(4-5.5') SAND with CLAY, dense, pale brown grading to reddish yellow, wet, no plasticity, no cohesion	SW-SC	
5						Wet at 4' bgs
		2.0		(5.5-10') CLAY, hard, pale brown with reddish yellow mottling and some brown, dry, low plasticity, cohesive		
		1.0				
	100	2.3			CL	
		0.2				
		0.1				
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-029-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/5/18
Weather	: Cloudy 70s
Northing (US ft)	: 568466.67
Easting (US ft)	: 1462989.70

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.0	B7-029-SB-1	(0-1') SILT, soft, dark brown, moist, low plasticity, cohesive	ML	
		0.0	B7-029-SB-2	(1-7') CLAY then CLAY with SAND from 4.5-7' bgs, firm grading to very firm, light grayish brown with reddish yellow mottling, moist, low plasticity, cohesive		
	96	0.0				
		0.0				
		0.0	B7-029-SB-5		CL	
5		0.3				
		0.0				
				(7-7.5') CLAYEY SAND, dense, light grayish brown, very moist, no plasticity, no cohesion	SC	
	100	0.0		(7.5-8.6') SAND with CLAY, fine to coarse, medium dense, reddish yellow, wet, no plasticity, no cohesion	SW-SC	Wet at 7.5' bgs
		0.0				
		0.5		(8.6-10') CLAY with trace SAND, hard, light grayish brown with reddish yellow mottling, low plasticity, cohesive	CL	
10				End of boring		

Boring terminated at 10' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-030-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/3/18
Weather	: Sunny 80s
Northing (US ft)	: 569188.31
Easting (US ft)	: 1463892.79

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		-	B7-030-SB-1	(0-3') Non-native SAND, very fine to coarse, with some BRICK and CONCRETE, GRAVEL-sized, medium dense grading to dense, brown with some yellow and light gray, dry, no plasticity, no cohesion		
		2.0	B7-030-SB-2		SW	
	84	2.1				
		1.7		(3-9') BRICK, GRAVEL-sized, fine to coarse, dense, red with some light brown, dry then wet at 8.5' bgs, no plasticity, no cohesion		Wet at 3.5' bgs
		1.4				
5		-			GW	
		-				
	62.5					
		8.2				Slag gravel in cutting shoe
		17.3				
				End of boring		
10						

Boring terminated at 9' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-031-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/8/18
Weather	: Cloudy 70s
Northing (US ft)	: 568908.26
Easting (US ft)	: 1463281.17

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.2	B7-031-SB-1	(0-1') SILT with SAND, soft, brown, moist, low plasticity, cohesive	ML	Heavy ORGANIC matter at surface
		2.1	B7-031-SB-2	(1-2') CLAY with some SAND, very firm, reddish yellow, dry, low plasticity, cohesive	CL	
	94	0.0		(2-6') CLAYEY SAND, very fine to medium, dense, reddish yellow and pale brown, dry grading to very moist, no plasticity, no cohesion		
		0.0				
		0.0	B7-031-SB-5		SC	
5		0.0				
		7.1		(6-6.8') SAND, fine to coarse, yellowish red, wet, no plasticity, no cohesion	SW	
	100	0.0		(6.8-10') CLAY with SAND and flat GRAVEL from 8-10' bgs, firm to soft, yellowish red, moist to very moist, low plasticity, cohesive		Wet at 7.5' bgs
		0.2			CL	
		0.0				
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-032-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: J. Barna
Checked by	: M. Hritz, E.I.T.
Drilling Company	: ARMGroup LLC
Driller	: J. Barna/R. Clancy
Drilling Equipment	: Hand auger

Date	: 12/21/20
Weather	: Sunny 40s
Northing (US ft)	: 570341
Easting (US ft)	: 1464572

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.0	B7-032-SB-1	(0-0.5') CLAY with SAND grading to CLAYEY SAND, loose, light gray, moist	CL/SC	
				(0.5-2') CLAYEY SAND, loose, moist, light gray		
		0.0	B7-032-SB-2		SC	
				(2-5') CLAY with SAND, moist, light brown and gray, low plasticity, cohesive		
	100	0.0				
		0.0			CL	
		0.0	B7-032-SB-5			Wet at 5' bgs
5				End of boring		

Boring terminated at 5' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-033-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/4/18
Weather	: Sunny 70s
Northing (US ft)	: 567878.16
Easting (US ft)	: 1463363.37

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.0	B7-033-SB-1	(0-1') SILT with some SAND, soft, dark brown, moist, low plasticity, cohesive	ML	
		0.0	B7-033-SB-2	(1-7.5') CLAY, soft then hard at 2' bgs, pale brown with reddish yellow, moist to dry, low plasticity, cohesive	CL	
	94	0.0				
		0.0				
		0.0	B7-033-SB-5			
5		0.3				
		0.1				
	100	0.1		(7.5-10') CLAYEY SAND, dense, very pale brown with reddish yellow mottling, moist to very moist then wet at 9' bgs, no plasticity, no cohesion	SC	Wet at 9' bgs
		0.0				
		0.0				
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-034-SB

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/2/18
Weather	: Sunny 80s
Northing (US ft)	: 569888.77
Easting (US ft)	: 1464306.99

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.1	B7-034-SB-1	(0-0.9') SILT with some SAND and light amount of ORGANIC matter, firm, brown, moist, low plasticity, cohesive	ML	
		0.0	B7-034-SB-2	(0.9-6.8') CLAY, hard, light brownish gray and reddish yellow mottling, dry, low plasticity, cohesive	CL	
	90	7.1				
		5.3				
		5.5				
5		-				Wet at 6.8' bgs
		57.9	B7-034-SB-7			
				(6.8-8.5') SAND, dense, reddish yellow and light brownish gray, wet, no plasticity, no cohesion	SW	
	88	0.6				
		1.6		(8.5-10') CLAY with some SAND, hard, reddish yellow and light grayish brown mottling, moist, low plasticity, cohesive	CL	
		0.9				
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-035-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/5/18
Weather	: Sunny 70s
Northing (US ft)	: 568182.79
Easting (US ft)	: 1463819.65

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.0	B7-035-SB-1	(0-0.7') SILT with trace SAND and ORGANICS, firm, brown, moist, low plasticity, cohesive	ML	
		0.0	B7-035-SB-2	(0.7-5.3') CLAY then CLAY with SAND from 5-5.3' bgs, firm grading to hard, pale brown with reddish yellow mottling, moist to dry, low plasticity, cohesive		
	98	0.0				
		0.0			CL	
		0.0	B7-035-SB-5			
5		0.0		(5.3-5.8') SAND, medium to coarse, reddish yellow, wet, no plasticity, no cohesive	SW	
		0.0		(5.8-10') CLAY with trace SAND, hard, pale brown with reddish yellow mottling, dry to moist, low plasticity, cohesive		Wet at 5.3' bgs
	100	0.3				
		0.0			CL	
		0.0				
10				End of boring		

Boring terminated at 10' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-036-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/4/18
Weather	: Cloudy 80s
Northing (US ft)	: 568301.14
Easting (US ft)	: 1463508.85

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.0	B7-036-SB-1	(0-1') SILT with some SAND and trace ORGANICS, brown, moist, low plasticity, cohesive	ML	
		0.0	B7-036-SB-2	(1-5') CLAY, hard, very pale brown with reddish yellow mottling, dry to moist, low plasticity, cohesive		
	100	0.0			CL	
		0.0				
		0.0	B7-036-SB-5			
5				(5-5.3') CLAY with SAND, firm, reddish yellow and pale brown, very moist, low plasticity, cohesive	CL	
		1.1		(5.3-6') CLAYEY SAND, dense, reddish yellow, very moist, no plasticity, no cohesion	SC	Wet at 6' bgs
		0.3		(6-9.6') SAND, fine to coarse, very pale brown to reddish yellow, wet, no plasticity, no cohesion		
	100	0.0			SW	
		0.0				
		0.0				
10				(9.6-10') CLAY with SAND, very firm, pale brown, moist, low plasticity, cohesive	CL	
				End of boring		

Boring terminated at 10' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-037-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/5/18
Weather	: Cloudy 70s
Northing (US ft)	: 568437.01
Easting (US ft)	: 1463867.09

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	96	0.0	B7-037-SB-1	(0-0.8') SILT with moderate amount of ORGANIC matter, firm to soft, dark brown, moist, low plasticity, cohesive	ML	
		0.0	B7-037-SB-2	(0.8-5') CLAY grading to CLAY with SAND, firm grading to hard, light grayish brown with reddish yellow mottling, very moist grading to dry, low plasticity, cohesive	CL	
		0.0				
		0.0				
		0.0	B7-037-SB-5			
5	98	0.0		(5-5.8') CLAYEY SAND, dense, light grayish brown, wet, no plasticity, no cohesion	SC	Wet at 5' bgs
		0.7		(5.8-6.9') SAND, fine to coarse, reddish yellow, wet, no plasticity, no cohesion	SW	
		2.3		(6.9-10') CLAY, hard to firm, light grayish brown with reddish yellow mottling, dry to moist, low plasticity, cohesive	CL	
		0.0				
		0.0				
10				End of boring		

Boring terminated at 10' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-038-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/2/18
Weather	: Cloudy 80s
Northing (US ft)	: 569720.54
Easting (US ft)	: 1463807.98

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		-	B7-038-SB-1	(0-2.8') SILT with SAND, loose, brown, dry, no plasticity, no cohesion	ML	
		-	B7-038-SB-2			
	50	4.5				
		0.0		(2.8-5') SILT, firm, brownish gray with some reddish yellow streaks, moist, low plasticity, cohesive	ML	
		1.0				
5		1.2		(5-20') CLAY, hard to firm then soft from 18.5-20' bgs, very pale brown with reddish yellow mottling then gray 18.5-20' bgs, dry to moist then very moist at 18.5' bgs		
		1.1				
	100	3.8	B7-038-SB-8			
		3.3				
		2.1				
10		0.1				No water encountered
		0.0				
	86	0.0			CL	
		0.0				
		0.0				
15		-				
		0.2				
	100	0.4				
		0.0				
		0.1				
20				End of boring		

Boring terminated at 20' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-039-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/4/18
Weather	: Sunny 80s
Northing (US ft)	: 567977.18
Easting (US ft)	: 1463876.63

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	100	0.0	B7-039-SB-1	(0-0.5') SILT with trace SAND, soft, brown, moist, low plasticity, cohesive	ML	
		0.0	B7-039-SB-2	(0.5-1.0') CLAY, firm grading to hard, pale brown with reddish yellow mottling, moist to dry, low plasticity, cohesive	CL	
		0.0				
		0.0	B7-039-SB-5			
5		0.0		(5-6.5') SILTY SAND, medium dense, very pale brown, wet, no plasticity, no cohesion	SM	Wet at 5' bgs
		0.0		(6.5-7.4') SAND, medium dense, very pale brown, wet, no plasticity, no cohesion	SW	
	100	0.0		(7.4-10') CLAY, hard, pale brown with reddish yellow mottling, dry, low plasticity, cohesive	CL	
		0.0				
		0.0				
10				End of boring		

Boring terminated at 10' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-040-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/2/18
Weather	: Partly Cloudy 80s
Northing (US ft)	: 570051.27
Easting (US ft)	: 1464062.28

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	100	4.0	B7-040-SB-1	(0-5.5') SILT with SAND and some SLAG, GRAVEL-sized, coarse, from 0-3' bgs, firm to very firm, brown, dark grayish brown and light brown, moist to dry, very soft from 5-5.5' bgs, low plasticity, cohesive	ML	
		5.9	B7-040-SB-2			
		6.5				
		12.6				
		2.3				
5		1.3				
	100	23.3	B7-040-SB-7	(5.5-20') CLAY, hard to firm, then soft from 18.5-20' bgs, very pale brown with reddish yellow mottling grading to very pale brown, dry to moist then very moist from 18.5-20' bgs, low plasticity, cohesive	CL	
		10.3				
		18.6				
		2.6	B7-040-SB-10			No water encountered
10		-				
		-				
	60	4.6				
		0.2				
		0.3				
15		-				
		-				
	100	-				
		-				
		-				
20				End of boring		

Boring terminated at 20' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-041-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/3/18
Weather	: Sunny 80s
Northing (US ft)	: 570200.57
Easting (US ft)	: 1464118.71

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0		0.2	B7-041-SB-1	(0-0.5') SILT with SAND and trace coarse SLAG GRAVEL, firm, brown, moist, low plasticity, cohesive	ML	
		0.1	B7-041-SB-2	(0.5-8') CLAY with trace SAND, very firm to hard but soft from 6-7' bgs, brown then light grayish brown with some reddish yellow mottling from 3-8' bgs, low plasticity, cohesive		
	100	0.0				
		0.0				
		0.0	B7-041-SB-5		CL	
5		0.1				
		0.0				
	100	0.0				
		0.0		(8-8.8') CLAY with SAND, very firm, light brownish gray with reddish yellow mottling, moist, low plasticity, cohesive	CL	
		0.0		(9.3-11') SAND, medium to coarse, dense, reddish yellow, wet, no plasticity, no cohesive	SW	Wet at 8.8' bgs
10		-				
		0.0		(11-20') CLAY, very firm to firm then soft from 16-20' bgs, pale brown then gray from 18-20' bgs, dry grading to very moist, low plasticity, cohesive		
	80	0.0				
		0.0				
		0.0				
15		-			CL	
		0.0				
	80	0.0				
		0.0				
		0.0				
20				End of boring		

Boring terminated at 20' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-042-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/4/18
Weather	: Cloudy 80s
Northing (US ft)	: 568027.01
Easting (US ft)	: 1463207.70

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	84	-	B7-042-SB-1	(0-1.8') SILT with trace SAND and light amount of ORGANICS, soft, dark brown, moist, low plasticity, cohesive	ML	
		0.0	B7-042-SB-2			
		0.0		(1.8-5') CLAY, soft grading to hard, light brown grading to light grayish brown with reddish yellow mottling, very moist grading to dry, low plasticity, cohesive	CL	
		0.0				
		0.0	B7-042-SB-5			
5	100	0.3		(5-8.7') CLAYEY SAND, dense, reddish yellowish then very pale brown, moist to very moist then wet at 7.5' bgs, no plasticity, no cohesive	SC	Wet at 7.5' bgs
		0.4				
		1.0				
		0.0				
		0.0		(8.7-10') SAND, fine to coarse, dense, reddish yellow, wet, no plasticity	SW	
10				End of boring		

Boring terminated at 10' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-043-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/5/18
Weather	: Cloudy 70s
Northing (US ft)	: 568661.64
Easting (US ft)	: 1463193.31

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	86	-	B7-043-SB-1	(0-1.1') SLAG, GRAVEL-sized, with SAND and SILT, loose, dark brown, moist to dry, no plasticity, no cohesion	GW/SW	
		53.1	B7-043-SB-2	(1.1-4') CLAY then CLAY with SAND at 3.5' bgs, hard, light grayish brown and reddish yellow grading to grayish brown, dry to moist, low plasticity, cohesive	CL	
		35.1				
		18.5	B7-043-SB-4			
		0.0		(4-5') CLAYEY SAND, dense to medium dense, reddish yellow and pale brown, wet, no plasticity, no cohesion	SC	Wet at 4' bgs
5		0.0		(5-7.4') SAND, fine to coarse, dense, light brown to reddish yellow, wet, no plasticity, no cohesion	SW	
	100	0.0				
		0.0		(7.4-10') CLAY with SAND, firm to very firm, light grayish brown with reddish yellow mottling, moist, low plasticity, cohesive	CL	
		0.0				
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-044-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/4/18
Weather	: Cloudy 80s
Northing (US ft)	: 568260.59
Easting (US ft)	: 1463193.31

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	100	0.0	B7-044-SB-1	(0-0.5') SILT with trace SAND, soft, dark brown, moist to very moist, low plasticity, cohesive	ML	
		0.1	B7-044-SB-2	(0.5-6') CLAY with trace SAND then CLAY with SAND from 5-6' bgs, hard to very firm, very pale brown with reddish yellow mottling, moist, low plasticity, cohesive	CL	
		0.0				
		0.5				Wet at 4' bgs
		0.0	B7-044-SB-5			
5		0.0				
		0.0		(6-7.8') CLAYEY SAND, very fine to medium, dense, very pale brown, wet, no plasticity, no cohesion	SC	
	100	0.0				
		0.0		(7.8-8.5') SAND, medium to coarse, dense, yellowish red, wet, no plasticity, no cohesion	SW	
		0.0		(8.5-10') CLAY, hard to very firm, very pale brown with reddish yellow mottling, moist, low plasticity, cohesive	CL	
		0.0				
10				End of boring		

Boring terminated at 10' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-045-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/30/18
Weather	: Sunny 50s
Northing (US ft)	: 566782.94
Easting (US ft)	: 1463125.49

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	88	23.3		(0-0.5') ASPHALT	NA	
		14.4	B7-045-SB-1.5	(0.5-4.3') SILT with SAND from 1.1-1.9' bgs, grading to CLAY with SILT and SAND from 1.9-4.4' bgs, medium dense to firm, brown and gray, dry, no plasticity grading to low plasticity, no cohesion	ML/CL	PID possibly malfunctioning from 0-5'
		60.5				
		41.4				
		49.9	B7-045-SB-5	(4.3-5.1') CLAY with SILT, firm to soft, dark brown, low plasticity, cohesive	CL	
5	100	3.1		(5.1-8.2') SAND, fine, medium dense, gray grading to brown, moist, no plasticity, no cohesion	SP	
		2.9				
		1.6				
		1.1		(8.2-9.1') CLAY with SAND, firm, gray, moist, low plasticity, cohesive	CL	
		0.7	B7-045-SB-10	(9.1-10') CLAY, soft, gray, moist, low plasticity, cohesive	CL	
10	98	-		(10-13.8') SAND, fine, dense, very pale brown to light brown, wet, no plasticity, no cohesion	SP	Wet at 10.1' bgs
		-				
		-				
		-				
		-		(13.8-15') CLAY with SAND, firm, very pale brown to light brown, wet, low plasticity, cohesive	CL	
15				End of boring		

Boring terminated at 15' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-046-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/5/18
Weather	: Cloudy 70s
Northing (US ft)	: 567323.81
Easting (US ft)	: 1463404.97

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	80	-	B7-046-SB-1	(0-2.8') SLAG, GRAVEL-sized, fine to coarse, with SILT and some SAND, loose to medium dense, dark brown with gray, dry, no plasticity, no cohesion	GW-GM	
		14.3				
		0.1				
		9.7	B7-046-SB-4	(2.8-10') CLAY with SAND, fine, grading to CLAY, firm grading to hard, light gray with reddish yellow mottling, moist grading to dry, low plasticity, cohesive		
		0.0				
5		0.0				
		1.7			CL	
	80	6.1				
		0.0				
		0.2	B7-046-SB-10			
10		-		(10-18.5') CLAY, firm to soft, pale brown, very moist, low plasticity, cohesive		No water encountered
		-				
	52	-				
		0.0				
		0.0			CL	
15		0.0				
		0.0				
	100	0.0				
		0.0				
		0.0		(18.5-20') CLAY, soft, gray, very moist, low plasticity, cohesive	CL	
20				End of boring		

Boring terminated at 20' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-047-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/3/18
Weather	: Sunny 80s
Northing (US ft)	: 567843.53
Easting (US ft)	: 1462854.09

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		258.9	B7-047-SB-1	(0-0.4') SILT with trace ORGANIC matter, soft to firm, dark brown, moist, low plasticity, low cohesion	ML	
		14.9		(0.4-6.2') CLAY, soft from 0.4-1.5' bgs then hard then soft from 5-6.2' bgs, reddish yellow and light grayish brown mottling, very moist from 0.4-1.5' then dry from 1.5-5' bgs then very moist from 5-6.2' bgs, low plasticity, cohesive		
	100	9.1				
		1.6			CL	
		0.1	B7-047-SB-5			
5						
		0.3				Wet at 6.2' bgs
		0.0		(6.2-8.7') SAND, fine to coarse with some SILT, dense, reddish yellow and brown, wet, no plasticity, no cohesion		
	100	0.1			SW	
		0.1				
				(8.7-10') CLAY, hard, reddish yellow and very pale brown mottling, dry, low plasticity, cohesive		
		0.9			CL	
10				End of boring		

Boring terminated at 10' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-048-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/8/18
Weather	: Cloudy 70s
Northing (US ft)	: 567293.28
Easting (US ft)	: 1462927.21

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0		-	B7-048-SB-1	(1-1.2') Non-Native SAND with SILT, moderate amount of ORGANIC matter, and SLAG, GRAVEL-sized, grading to SLAG, GRAVEL-sized with SILT, medium dense, brown, dry grading to wet, no plasticity, no cohesion	SW/GW	
		0.0				
	80	0.0		(1.2-20') CLAY with some SAND, firm then hard to very firm from 3-10' bgs, soft from 10-20' bgs, light brown then pale brown with reddish yellow mottling then brownish gray from 17-20', moist to dry, low plasticity, cohesive		
		0.0				
		0.0	B7-048-SB-5			
5		-				
		0.0				
	90	0.1				
		0.0				
		0.0	B7-048-SB-10			
10		-			CL	No water encountered
		0.0				
	74	0.0				
		0.0				
		0.0				
15		0.0				
		0.0				
	100	0.0				
		0.0				
		0.0				
20				End of boring		

Boring terminated at 20' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-049-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/3/18
Weather	: Sunny 80s
Northing (US ft)	: 567091.82
Easting (US ft)	: 1464296.47

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	76	-	B7-049-SB-1	(0-4.1') Non-native SAND, fine to coarse, with some SLAG, GRAVEL-sized, medium dense to loose, dark brown with some gray, dry, no plasticity, no cohesion	SW	
		0.5				
		0.2				
		0.1				
		0.1	B7-049-SB-5	(4.1-9') CLAY, firm to hard, very pale brown with reddish yellow mottling, moist to dry, low plasticity, cohesive	CL	Wet at 9' bgs
5		-				
		1.9				
	80	3.1				
		0.1				
		0.1		(9-10') CLAYEY SAND, dense, reddish yellow with some light grayish brown, wet, no plasticity, no cohesion	SC	
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B7-050-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Lou Davis
Drilling Equipment	: Geoprobe 7822DT

Date	: 10/8/18
Weather	: Cloudy 70s
Northing (US ft)	: 567592.67
Easting (US ft)	: 1463989.62

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	80	-	B7-049-SB-1	(0-0.6') SILT with some SLAG, GRAVEL-sized, and heavy amount of ORGANIC matter, very soft, brown, very moist, low plasticity, cohesive	ML	
		4.3		(0.6-9') SLAG, SAND and GRAVEL-sized, with some SILT, medium dense to dense, black, gray, and light gray with trace brown, wet, no plasticity, no cohesion		
		15.2				
		1.8				
		1.5	B7-049-SB-5		SW/GW	
5		-				
		-				
	90	-				
		0.0				
		0.0		(9-12.3') CLAY with SHELLS, very soft, grayish green with trace black streaks, very moist, low plasticity, cohesive	CL	
10		-				
		-				
	76	-		(12.3-15') SLAG, GRAVEL-sized, loose, gray and black, wet, no plasticity, no cohesion	GW	
		-				
		0.0				Wet at 14.5' bgs
15		-		(15-20') NO RECOVERY		
		-				
	0	-			-	
		-				
		-				
20				End of boring		

Boring terminated at 20' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-051-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: T. Moyer
Drilling Equipment	: Geoprobe 7822DT

Date	: 03/07/19
Weather	: Cloudy, 30s
Northing (US ft)	: 566646.67
Easting (US ft)	: 1462896.50

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0		-	B7-051-SB-1	(0-3') CLAYEY SAND, medium dense, reddish brown to brown, moist, low plasticity, cohesive	SC	Trace organics
	76	1.2				
		1.8				
		0.1		(3-6') CLAY with SAND, soft, brown and black, very moist, low plasticity, cohesive	CL	Light amount of roots from 4-5' bgs
		0.1	B7-051-SB-5			
5		0.1				
	100	1.4		(6-9.5') CLAY, hard, brown and reddish yellow, dry, low plasticity, cohesive	CL	
		0.1				
		0.1				
		0.1				Wet at 9.5' bgs
10				(9.5-10') CLAYEY SAND, medium dense, reddish yellow and pale brown, wet, no plasticity, no cohesion	SC	
				End of boring		
15						

Boring terminated at 10' bgs due to encountering groundwater.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-052-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: T. Moyer
Drilling Equipment	: Geoprobe 7822DT

Date	: 03/07/19
Weather	: Cloudy, 30s
Northing (US ft)	: 566398.66
Easting (US ft)	: 1463215.52

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		1.9	B7-052-SB-1	(0-0.3') ASPHALT	NA	
				(0.3-7') CLAYEY SAND with GRAVEL, fine to coarse, hard, brown to reddish brown, dry then very moist at 4-6' bgs then dry from 6-7' bgs, no plasticity, no cohesion		
		3.5				
	100	10.3				
		13.5	B7-052-SB-4		SC	
		3.0				
5						
		0.8				
		4.3				
	100	0.9		(7-8.5') CLAY, very firm, brown, moist, low plasticity, cohesive	CL	
		0.3				Wet at 8.5' bgs
				(8.5-10') CLAYEY SAND, medium dense, brown with some reddish yellow, wet, no plasticity, no cohesion	SC	
		0.3				
10				End of boring		
15						

Boring terminated at 10' bgs due to encountering groundwater.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-053-SB/PZ

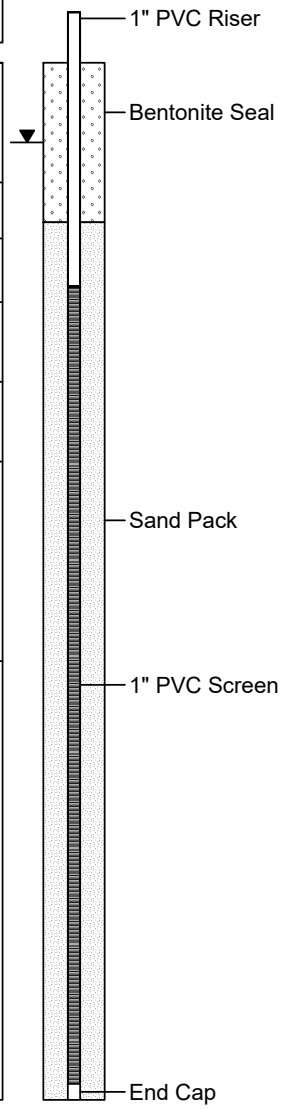
(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
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

Soil Boring Installation Date	: 12/07/2020
Piezometer Installation Date	: 12/07/2020
Casing/Riser/Screen Type	: PVC
Borehole Diameter	: 2.25"
Riser/Screen Diameter	: 1"
Northing (US ft)	: 569506.43
Easting (US ft)	: 1464341.91
48-Hr DTW	: 2.90' TOC

No LNAPL or DNAPL detected at 0 or 48 hours

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0		-	B7-053-SB-1	(0-1.5') SLAG, GRAVEL-sized, fine to coarse, medium dense, light gray and light grayish brown, dry to moist, non-plastic, non-cohesive	GW	
		1.3	B7-053-SB-2	(1.5-2.2') CLAY with SAND, hard, brown with black grading to light grayish brown, dry, low plasticity, cohesive	CL	
	90	1.1		(2.2-3') CLAYEY SAND, medium dense, light grayish brown with reddish yellow, dry, non-plastic, non-cohesive	SC	
		0.0		(3-4') SAND with CLAY, very fine to medium, medium dense, reddish yellow and light grayish brown, very moist, non-plastic, non-cohesive	SW-SC	
		0.0	B7-053-SB-5	(4-5') CLAY with trace SAND, hard, light brownish gray and reddish yellow, moist, low plasticity, cohesive	CL	
5		0.0		(5-7.5') SLAG, GRAVEL-sized, fine to coarse, with SAND and CLAY lenses, medium dense, grayish brown and light brown, wet, non-plastic, non-cohesive	GW/SW	Wet at 5' bgs
	100	0.0		(7.5-13') CLAY, soft to firm, light brown with some reddish yellow, very moist to wet, low plasticity, cohesive	CL	
		0.0				
		0.0				
10		0.0				
		0.0				
	50	0.0				
		0.0				
				End of Boring		
15						



Boring terminated at 13' bgs due to water and piezometer installation
TOC: Top of PVC casing
DTW: Depth to water
bgs: Below ground surface

Riser Stickup: 1.90' ags
Riser: 0 - 3' bgs
Screen: 3 - 13' bgs [Slot Size: 0.010"]
Sand Pack: 2 - 13' bgs [Grain Size: WG #2]
Bentonite Seal: 0 - 2' bgs [Grain Size: bentonite chips]

ARM Group LLC
Engineers and Scientists

Boring ID: B7-054-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
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	: 12/07/2020
Weather	: Cloudy, 40's
Northing (US ft)	: 569467.68
Easting (US ft)	: 1464720.39

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
0	100	0.0	B7-054-SB-1	(0-0.7') SLAG, SAND and GRAVEL-sized, medium dense, light gray and brown, very moist, no plasticity, no cohesion	GW/SW	
1		0.9	B7-054-SB-2	(0.7-5') CLAY, hard, brownish gray, dry, low plasticity, cohesive		
2		1.0				
3		1.3			CL	
4		0.0	B7-054-SB-5			
5	100	0.0		(5-19') CLAY, very firm, brownish gray, low plasticity, cohesive, trace SAND and SILT		
6		0.0				
7		0.0				
8		0.0				
9		0.0	B7-054-SB-10			
10	100	0.0				
11		0.0				
12		0.0			CL	
13		0.0				
14		0.2				
15	100	0.0				
16		0.0				
17		0.0				
18		0.0				
19		0.0		(19-20') SAND, very fine to medium, medium dense, reddish yellow, wet, non-plastic, non-cohesive	SW	Wet at 19' bgs
20				End of Boring		
21						

Total Borehole Depth: 20' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-055-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
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	: 12/08/2020
Weather	: Sunny, 30s
Northing (US ft)	: 569341.76
Easting (US ft)	: 1464324.00

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
0	100	0.0	B7-055-SB-1	(0-0.8') SILT with some ORGANIC matter, soft, dark brown, moist, low plasticity, cohesive	ML	
1		0.0	B7-055-SB-2	(0.8-5') CLAY with SAND grading to CLAY, firm grading to hard, reddish yellow and very pale brown, moist grading to dry, low plasticity, cohesive	CL	
2		0.0				
3		0.0				
4		0.0	B7-055-SB-5			
5	90	-		(5-6.7') SILT with trace SAND, hard, grayish brown, dry, low plasticity, cohesive	ML	
6		0.0				
7		0.0		(6.7-10') CLAY with trace SAND, hard, reddish yellow and very pale brown, dry, low plasticity, cohesive	CL	
8		0.0				
9		0.0	B7-055-SB-10			
10	92	-		(10-20') CLAY, firm then soft at 14' bgs, reddish yellow then gray at 14' bgs, moist then very moist at 14' bgs, low plasticity, cohesive	CL	No water encountered
11		0.0				
12		0.0				
13		0.0				
14		0.0				
15	100	0.0				
16		0.0				
17		0.0				
18		0.0				
19		0.0				
20				End of Boring		
21						

Total Borehole Depth: 20' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-056-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
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	: 12/07/2020
Weather	: Cloudy, 40s
Northing (US ft)	: 569413.98
Easting (US ft)	: 1465121.86

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
0	100	0.0	B7-056-SB-1	(0-0.6') SLAG, GRAVEL-sized, fine to coarse, light gray and gray, dry, non-plastic, non-cohesive	GW	
1		0.0	B7-056-SB-2	(0.6-3.5') CLAY with trace GRAVEL, hard, light grayish brown, dry, low plasticity, cohesive	CL	
2		0.0				
3		0.0				
4		0.0	B7-056-SB-5	(3.5-5.4') SILT with SAND, hard, brown, dry, low plasticity, cohesive	ML	
5	84	-		(5.4-10.7') CLAY with SAND, very firm to soft, dry to moist, low plasticity, cohesive	CL	
6		0.0				
7		0.0				
8		0.0				
9		0.0	B7-056-SB-10			
10	70	-		(10.7-18.2') CLAY, soft to firm, light grayish brown, very moist, low plasticity, cohesive	CL	
11		-				
12		0.0				
13		0.0				
14		0.0				
15	100	0.0				
16		0.0				
17		0.0				
18		0.0				Wet at 18.2' bgs
19		0.0		(18.2-20') SAND, very fine to medium, medium dense, reddish yellow and yellowish red, wet, non-plastic, non-cohesive	SW	
20		0.0		End of Boring		
21						

Total Borehole Depth: 20' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-057-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 12/10/2020
Weather	: Sunny, 40s
Northing (US ft)	: 569717.90
Easting (US ft)	: 1464202.81

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	94	0.0	B7-057-SB-1	(0-2.3') SILT with SAND and CLAY, firm, brown, dry, non-plastic, non-cohesive	ML	
2		0.0	B7-057-SB-2			
3		0.0		(2.3-5') SLAG, CLAYEY SAND and GRAVEL-sized, medium dense, brown and gray, moist, non-plastic, non-cohesive	SC/GC	
4		0.0				
5		0.0	B7-057-SB-5			Wet at 5' bgs
6	100	0.0		(5-5.7') SLAG, SAND and GRAVEL-sized, loose, gray, wet, non-plastic, non-cohesive	GW	
7		0.0		(5.7-10') CLAYEY SAND, medium dense, light gray and reddish yellow mottling, wet, non-plastic, non-cohesive	SC	
8		0.0				
9		0.0				
10		0.0		End of Boring		
11						

Total Borehole Depth: 10' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-058-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
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	: 12/07/2020
Weather	: Sunny, 40s
Northing (US ft)	: 569770.32
Easting (US ft)	: 1464456.49

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1	50	-	B7-058-SB-1	(0-1.3') SILT with trace SAND and ORGANIC matter, very firm, brown, dry to moist, low plasticity, cohesive	ML	
2		-	B7-058-SB-2	(1.3-4.7') CLAY with SAND, very firm to hard, reddish yellow, dry, low plasticity, cohesive	CL	
3		0.0				
4		0.0				
5		0.0	B7-058-SB-5	(4.7-5') SAND, fine to medium, reddish yellow, dry, non-plastic, non-cohesive	SW	
6	100	0.0		(5-16.8') CLAY, hard then soft at 15' bgs, light brownish gray with reddish yellow mottling, dry then moist at 15' bgs, low plasticity, cohesive	CL	
7		0.0				
8		0.0				
9		0.0				
10		0.0				
11	92	0.0				
12		0.2				
13		0.2				
14		0.0				
15		-				
16	92	0.0				
17		0.0		(16.8-20') SAND, fine to medium, reddish yellow then yellowish red at 18' bgs, then reddish yellow at 18.8' bgs, wet, non-plastic, non-cohesive	SW	Wet at 16.8' bgs
18		0.0				
19		0.0				
20				End of Boring		
21						

Total Borehole Depth: 20' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-059-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
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	: 12/07/2020
Weather	: Sunny, 40s
Northing (US ft)	: 569742.54
Easting (US ft)	: 1464874.90

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
0	84	-	B7-059-SB-1	(0-1') SILT with SAND and ORGANIC MATTER, firm, dark brown, moist, low plasticity, cohesive	ML	
1		0.3	B7-059-SB-2	(1-10') CLAY with trace SAND and SILT, soft then hard to very firm, reddish yellow, dry, non-plastic, non-cohesive		
2		0.3				
3		1.2				
4		0.8	B7-059-SB-5			
5	90	0.1			CL	
6		0.1				
7		0.1				
8		0.2				
9		0.2	B7-059-SB-10			
10	100	0.0		(10-18') CLAY, soft, reddish yellow and very pale brown, very moist, low plasticity, cohesive	CL	
11		0.0				
12		0.0				
13		0.0				
14		0.0				
15	86	0.0				
16		0.0				
17		0.0				
18		0.0		(18-20') SAND, medium dense, wet, non-plastic, non-cohesive	SW	Wet at 18' bgs
19		0.0				
20				End of Boring		
21						

Total Borehole Depth: 20' bgs due to water.

ARM Group LLC
Engineers and Scientists

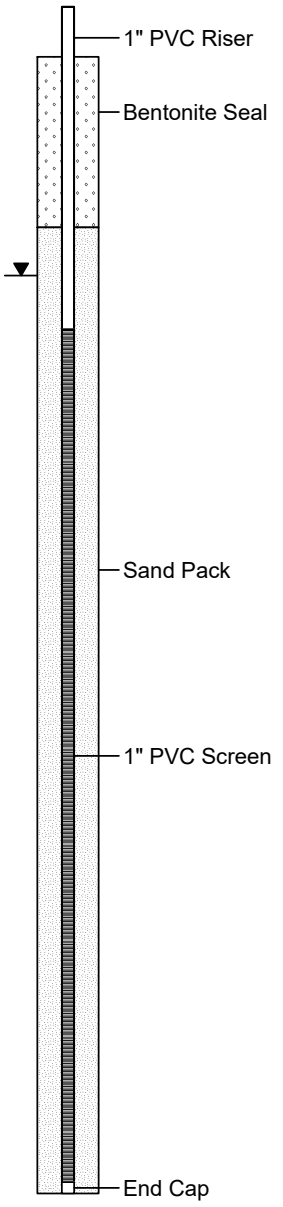
Boring ID: B7-060-SB/PZ

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
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

Soil Boring Installation Date	: 12/08/2020
Piezometer Installation Date	: 12/08/2020
Casing/Riser/Screen Type	: PVC
Borehole Diameter	: 2.25"
Riser/Screen Diameter	: 1"
Northing (US ft)	: 569934.34
Easting (US ft)	: 1464669.10
48-Hr DTW	: 7.35' TOC

No LNAPL or DNAPL detected at 0 or 48 hours

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0	94	0.0	B7-060-SB-1	(0-5.3') SILT with some SLAG, GRAVEL-sized, and some ORGANIC matter, soft then hard at 2.7' bgs, dark brown, moist to very moist then dry at 2.7' bgs, low plasticity, cohesive	ML	
		0.0	B7-060-SB-2			
		1.1				
		2.4				
		0.6	B7-060-SB-5			
5	92	0.0		(5.3-10') CLAY, soft to firm then hard at 7' bgs, reddish yellow and pale brown, very moist to dry, low plasticity, cohesive	CL	
		0.0				
		0.0				
		0.2				
		0.3	B7-060-SB-10			
10	90	-		(10-12.5') CLAY with SAND with very small intermittent wet SAND layers, firm to soft, very pale brown with reddish yellow, moist, low plasticity, cohesive	CL	
		0.0				
		0.0		(12.5-17.5') Small alternating CLAY with SAND and CLAYEY SAND layers, soft and medium dense, very pale brown and reddish yellow, very moist and wet, low plasticity with non-plastic sand, cohesive with non-cohesive sand	CL/SC	Wet at 12.5' bgs
		0.0				
		0.0				
15	60	-				
		-				
		0.0		(17.5-20') SAND, fine to medium, medium dense, very pale brown and reddish yellow with some yellowish red, wet, non-plastic, non-cohesive	SW	
		0.0				
		0.0				
20				End of Boring		



Boring terminated at 20' bgs due to water and piezometer installation
TOC: Top of PVC casing
DTW: Depth to water
bgs: Below ground surface

Riser Stickup: 3.50' ags
Riser: 0 - 5' bgs
Screen: 5 - 20' bgs [Slot Size: 0.010"]
Sand Pack: 3 - 20' bgs [Grain Size: WG #2]
Bentonite Seal: 0 - 3' bgs [Grain Size: bentonite chips]

ARM Group LLC
Engineers and Scientists

Boring ID: B7-061-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 12/10/2020
Weather	: Sunny, 40s
Northing (US ft)	: 570141.12
Easting (US ft)	: 1464509.77

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
1		0.0	B7-061-SB-1	(0-4.8') CLAY with SAND, firm to hard, light gray with reddish yellow mottling, dry, low plasticity, cohesive		Organics at surface
2		0.0	B7-061-SB-2			
3	100	0.0			CL	
4		0.0	B7-061-SB-4			
5		0.0				
6		-		(4.8-5') SAND, coarse, medium dense, brown to reddish yellow, wet, non-plastic, non-cohesive	SP	Wet at 4.8' bgs
7		-		(5-10') NO RECOVERY; HEAVING SANDS		
8	0	-			SW	
9		-				
10		-				
11	100	0.0		(10-12') CLAY with SAND, soft to firm, light gray with reddish yellow mottling, moist, low plasticity, cohesive	CL	
12		0.0		End of Boring		
13						

Total Borehole Depth: 12' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-062-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 09/18/2019
Weather	: Sunny, 70's
Northing (US ft)	: 566979
Easting (US ft)	: 1463424

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.3	B7-062-SB-1	(0-0.8') SILT, loose, dark brown, dry, non-plastic, non-cohesive	ML	Organics
1				(0.8-1.2') SLAG, GRAVEL-sized, loose, gray, dry, non-plastic, non-cohesive	GW	
		0.9		(1.2-7.7') CLAY, hard grading to firm, brown and gray with reddish yellow mottling, some black from 5-7.7' bgs, dry, low plasticity, cohesive		
2						
	100	1.2				
3						
		0.0				
4						
		0.4	B7-062-SB-5		CL	
5						
		0.4				
6						
		0.4				
7						
	100	0.0				Wet at 7.7' bgs
8				(7.7-9.6') SAND, very fine, dense, light gray grading to pale brown, wet, non-plastic, non-cohesive		
		-			SP	
9						
		-				
10				(9.6-10') CLAY, hard, light gray, dry, low plasticity, cohesive	CL	
				End of Boring		
11						

Boring terminated at 10' bgs due to water.

ARM Group LLC
Engineers and Scientists

Boring ID: B7-063-SB

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Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: D. Marchese
Drilling Equipment	: Geoprobe 7822DT

Date	: 09/18/2019
Weather	: Sunny, 70's
Northing (US ft)	: 566992
Easting (US ft)	: 1463420

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.0	B7-063-SB-1	(0-1') SILT, with some SAND, loose, dark brown, dry, non-plastic, non-cohesive	ML	
1				(1-1.1') SLAG, GRAVEL-sized, dry, non-plastic, non-cohesive	GW	
		0.0		(1.1-8') CLAY, with little SAND, hard, light brown and light gray with reddish yellow mottling, dry, low plasticity, cohesive		
2						
	100	0.1				
3						
		0.0				
4						
		0.0			CL	
5						
		0.0				
6						
		0.6				
7						
	100	3.3	B7-063-SB-8			
8				(8-10') SAND, very fine, very dense, light gray and reddish yellow, wet, non-plastic, non-cohesive		Wet at 8.5' bgs
		-				
9					SP	
		-				
10				End of Boring		
11						

Boring terminated at 10' bgs due to water.

ARM Group LLC
Engineers and Scientists

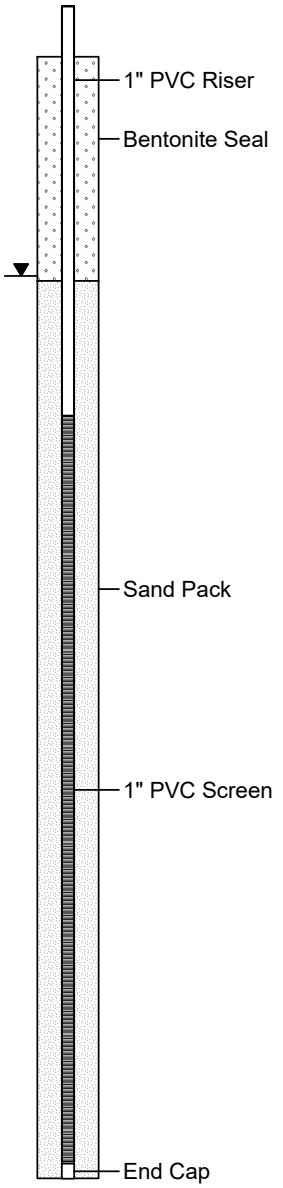
Boring ID: B7-064-SB/PZ

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Soil Boring Installation Date	: 12/10/2020
Piezometer Installation Date	: 12/10/2020
Casing/Riser/Screen Type	: PVC
Borehole Diameter	: 2.25"
Riser/Screen Diameter	: 1"
Northing (US ft)	: 570349.36
Easting (US ft)	: 1464521.81
24-Hr DTW	: 5.81' TOC
No LNAPL or DNAPL detected at 0 or 48 hours	

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0		0.9	B7-064-SB-1	(0-0.7') SILT with SAND and CLAY, soft, brown, very moist, non-plastic, non-cohesive	ML	Organics at surface
		1.1	B7-064-SB-2	(0.7-5') CLAY with SAND, hard, light gray with reddish yellow mottling, dry, low plasticity, cohesive	CL	
	100	0.0				
		0.0				
		0.0	B7-064-SB-5			
5		0.0		(5-6.2') CLAYEY SAND, fine, loose, light gray, pale brown, and reddish yellow, wet, non-plastic, non-cohesive	SC	Wet at 5' bgs
		0.0		(6.2-10') CLAY with SAND, firm to hard, light gray with reddish yellow mottling, moist, low plasticity, cohesive	CL	
	100	0.0				
		0.0				
		0.0				
10		0.0		(10-14.5') SAND, fine, loose, light gray, very pale brown, and reddish yellow, wet, non-plastic, non-cohesive	SP	
		0.0				
	100	0.0				
		0.0				
		0.0				
15		0.0		(14.5-15') CLAY with SAND, firm to hard, light gray with reddish yellow mottling, moist, low plasticity, cohesive	CL	
				End of Boring		



Boring terminated at 15' bgs due to water and piezometer installation
TOC: Top of PVC casing
DTW: Depth to water
bgs: Below ground surface

Riser Stickup: 2.88' ags
Riser: 0 - 5' bgs
Screen: 5 - 15' bgs [Slot Size: 0.010"]
Sand Pack: 3 - 15' bgs [Grain Size: WG #2]
Bentonite Seal: 0 - 3' bgs [Grain Size: bentonite chips]

ARM Group LLC
Engineers and Scientists

Boring ID: B7-065-SB/PZ

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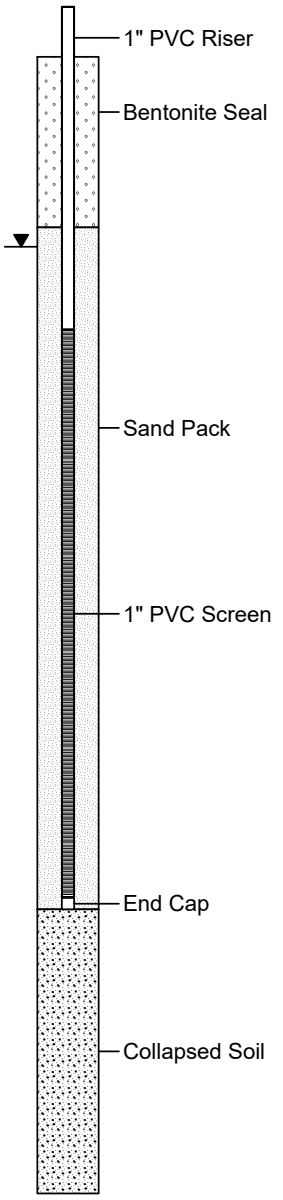
Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Sparrows Point - Parcel B7
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Soil Boring Installation Date	: 12/10/2020
Piezometer Installation Date	: 12/10/2020
Casing/Riser/Screen Type	: PVC
Borehole Diameter	: 2.25"
Riser/Screen Diameter	: 1"
Northing (US ft)	: 570371.97
Easting (US ft)	: 1464504.95
24-Hr DTW	: 6.26' TOC

No LNAPL or DNAPL detected at 0 or 48 hours

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS
0		0.0	B7-065-SB-1	(0-1') SILT with SAND and CLAY, soft to firm, brown with light gray and reddish yellow mottling, moist, non-plastic, non-cohesive	ML
		1.1	B7-065-SB-2		
	100	0.4		(1-6') CLAY with SAND, hard, light gray with reddish yellow mottling, dry, low plasticity, cohesive	CL
		0.0			
		0.0	B7-065-SB-5		
5		-			
		-		(6-10') CLAYEY SAND with SILT, loose to medium dense, wet, non-plastic, non-cohesive	
	50	0.0			SC
		0.0			
		0.0			
10		-		(10-15') SAND, fine, medium dense, reddish yellow, wet, non-plastic, non-cohesive; HEAVING SANDS	
		-			
	10	-			SP
		-			
		-			
15		0.0		(15-20) CLAY with SAND grading to CLAY, firm to soft, light gray grading to dark gray, moist, low plasticity, cohesive	
		0.0			
	100	0.0			CL
		0.0			
		0.0			
20				End of Boring	



REMARKS

Organics at surface

Wet at 7' bgs

Boring terminated at 20' bgs due to water and piezometer installation
TOC: Top of PVC casing
DTW: Depth to water
bgs: Below ground surface

Riser Stickup: 2.92' ags
Riser: 0 - 5' bgs
Screen: 5 - 15' bgs [Slot Size: 0.010"]
Sand Pack: 3 - 15' bgs [Grain Size: WG #2]
Bentonite Seal: 0 - 3' bgs [Grain Size: bentonite chips]

ARM Group LLC
Engineers and Scientists

Boring ID: B25-001-SB

Client	: Tradepoint Atlantic
ARM Project No.	: 20010225
Project Description	: Sparrows Point - Parcel B25
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/17/18
Weather	: Sunny, 60s
Northing (US ft)	: 569215.42
Easting (US ft)	: 1464186.89

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	78	-	B25-001-SB-1	(0-3.5') CLAY, hard to very firm, but soft in spots, reddish yellow with light brownish gray mottling, dry to very moist, low plasticity, cohesive	CL	
		15000	B25-001-SB-2			
		15000				
		5546	B25-001-SB-4			
				(3.5-4.5') SANDY CLAY, soft, reddish yellow with light brownish gray mottling, very moist, low plasticity, cohesive	CL	
		2.5		(4.5-5') CLAYEY SAND, medium dense, reddish yellow, wet, no plasticity, no cohesion	SC	Wet at 4.5' bgs
5						
		9.9		(5-6') SANDY CLAY, very soft, reddish yellow with light brownish gray, very moist, low plasticity, cohesive	CL	
		0.2		(6.1-10') CLAY, hard, light brownish gray with trace yellowish red, moist, low plasticity, cohesive		
	100	1.1			CL	Trace thin SAND layers present at 7' and 7.5' bgs
		90.6				
		728.8				
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B25-002-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010225
Project Description	: Sparrows Point - Parcel B25
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/17/18
Weather	: Sunny, 60s
Northing (US ft)	: 569198.75
Easting (US ft)	: 1464195.23

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	80	-	B25-002-SB-1	(0-1') CLAY with SAND, fine, soft to firm, dark brown, moist, low plasticity, cohesive	CL	
		0.0	B25-002-SB-2	(1-1.8') CLAY with some SAND, very firm, reddish yellow, moist, low plasticity, cohesive	CL	
		0.0		(1.8-2.5') CLAYEY SAND, dense, reddish yellow, moist, no plasticity, no cohesion	SC	
		0.0		(2.5-3.8') SAND, fine to coarse, dense, yellowish red, very moist, no plasticity, no cohesion	SW	
		0.0	B25-002-SB-5	(3.5-5') CLAY, hard, reddish yellow with light brownish gray mottling, moist to dry low plasticity, cohesive	CL	
5	100	0.0		(5-7') SANDY CLAY grading to CLAY with SAND, soft grading to hard, reddish yellow with pale brown, very moist, low plasticity, cohesive	CL	Wet at 7' bgs
		0.0		(7-7.9') CLAYEY SAND, medium dense, yellowish red, wet, no plasticity, no cohesion	SC	
		0.0		(7.9-10') CLAY, hard, reddish yellow with light brownish gray mottling, moist to dry low plasticity, cohesive	CL	
10		0.0		End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B25-003-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010225
Project Description	: Sparrows Point - Parcel B25
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Replogle, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/17/18
Weather	: Sunny, 60s
Northing (US ft)	: 569157.64
Easting (US ft)	: 1464162.51

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0	80	-	B25-003-SB-1	(0-4') CLAY, soft grading to very firm, brown then reddish yellow, moist to dry, low plasticity, cohesive	CL	
		0.0	B25-003-SB-2			
		0.0				
		0.0	B25-003-SB-4			
		0.0		(4-5') CLAYEY SAND grading to SAND, fine to coarse, dense to medium dense, very pale brown grading to reddish yellow, wet, no plasticity, no cohesion	SC/SW	Wet at 4' bgs
5	100	0.0		(5-7') CLAY with SAND, very firm, reddish yellow to yellowish red, moist, low plasticity, cohesive	CL	Trace SAND lenses from 5.5-8.5' bgs
		0.0				
		0.0		(7-8.5') SANDY CLAY, yellowish red with some light brownish gray, firm to soft, very moist, low plasticity, cohesive	CL	
		0.0		(8.5-10') CLAY, very firm to hard, light brownish gray, moist, low plasticity, cohesive	CL	
		0.0				
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B25-004-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010225
Project Description	: Sparrows Point - Parcel B25
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/18/18
Weather	: Sunny, 60s
Northing (US ft)	: 569105.07
Easting (US ft)	: 1464146.75

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0	90	0.1	B25-004-SB-1	(0-4') CLAY, soft grading to hard, brown then pale brown at 1' bgs, very moist grading to moist, low plasticity, cohesive	CL	
		0.0				
		1.1	B25-004-SB-2			
		0.0	B25-004-SB-4			
5		0.2		(4-7') CLAYEY SAND with trace thin CLAY lenses, medium dense, reddish yellow to yellowish red, wet, no plasticity, no cohesion	SC	Wet at 4' bgs
		0.1				
		0.0				
	100	0.2		(7-7.2') CLAYEY SAND, fine to coarse, medium dense, yellowish red, wet, no plasticity, no cohesion	SC	
				(7.2-8.1') CLAY, very firm, reddish yellow with light brownish gray, moist, low plasticity, cohesive	CL	
		0.0		(8.1-8.5') CLAYEY SAND, fine to coarse, medium dense, yellowish red, wet, no plasticity, no cohesion	SC	
		0.1		(8.5-10') CLAY, very firm to hard, reddish yellow and light brownish gray, moist, low plasticity, cohesive	CL	
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B25-005-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010225
Project Description	: Sparrows Point - Parcel B25
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/19/18
Weather	: Sunny, 60s
Northing (US ft)	: 568543.62
Easting (US ft)	: 1464402.06

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.0	B25-005-SB-1	(0-0.5') TOPSOIL, with trace WOOD fragments, loose, black, moist, no plasticity, no cohesion	OL	
				(0.5-0.9') CLAYEY SAND, loose, pale brown with trace GRAVEL, moist, no plasticity, no cohesion	SC	
				(0.9-1.3') SAND, very fine to medium, yellow, moist, no plasticity, no cohesion	SW	
		0.0	B25-005-SB-2	(1.3-1.8') GRAVEL with SAND, fine, loose to medium dense, very dark brown, moist, no plasticity, no cohesion	GW/SW	
	68	0.0		(1.8-6.5') CLAY, hard but soft from 3-3.5' bgs, reddish yellow with light brownish gray mottling, dry but very moist from 3-3.5' bgs, low plasticity, cohesive	CL	
		0.0				
		0.0	B25-005-SB-5			
5		0.7				
		0.0		(6.5-7') SANDY CLAY, hard reddish yellow with light brownish gray mottling, moist, low plasticity, cohesive	CL	Wet at 7' bgs
	100	1.6		(7-7.6') SAND, fine to coarse, dense, yellowish red, wet, no plasticity, no cohesion	SW	
				(7.6-7.9') CLAYEY SAND, dense, reddish yellow, wet, no plasticity, no cohesion	SC	
					CL	
		0.0		(7.9-8.3') SANDY CLAY, hard, reddish yellow with light brownish gray mottling, moist, low plasticity, cohesive		
				(8.3-10') CLAY with trace SAND, hard, light gray with reddish yellow, moist, low plasticity, cohesive	CL	
		0.0				
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B25-006-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010225
Project Description	: Sparrows Point - Parcel B25
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/19/18
Weather	: Sunny, 60s
Northing (US ft)	: 568576.55
Easting (US ft)	: 1464410.75

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.0	B25-005-SB-1	(0-0.5') SILT with SAND, soft, dark brown, very moist, low plasticity, cohesive	ML	
				(0.5-1.3') GRAVEL with SAND and SILT, fine, loose, very dark brown, very moist, no plasticity, no cohesion	GP/SW	
		37.0	B25-005-SB-2	(1.3-1.5') SILT with SAND, very soft, dark brown, very moist, low plasticity, cohesive	ML	
	94	0.0		(1.5-1.8') CLAY with trace SAND, light brown to brown then reddish yellow and light grayish brown mottling at 5' bgs, dry, low plasticity, cohesive	CL	
		0.0				
		1.9				
5		0.0				
		7.5	B25-005-SB-7			
	96	0.0		(7-8.5') CLAYEY SAND, medium dense to dense, pale brown, wet, no plasticity, no cohesion	SC	Wet at 7' bgs
		0.0		(8.5-10') CLAY, very firm, light brownish gray with reddish yellow mottling, moist, low plasticity, cohesive	CL	
		0.0				
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B25-007-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010225
Project Description	: Sparrows Point - Parcel B25
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/19/18
Weather	: Sunny, 60s
Northing (US ft)	: 568458.32
Easting (US ft)	: 1464388.66

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	80	-	B25-007-SB-1	(0-0.5') TOPSOIL with mulch, loose, dark brown, moist, no plasticity, no cohesion	OL	
				(0.3-1.3') SILT, soft, dark brown, moist, low plasticity, cohesive	ML	
		0.7	B25-007-SB-2	(1.3-2') CLAY, hard, reddish yellow with light brownish gray, dry, low plasticity, cohesive	CL	
		2.9		(2-3.2') SANDY CLAY firm, reddish yellow, very moist, low plasticity, cohesive	CL	
		63.7	B25-007-SB-4	(3.2-6.5') CLAY, hard, reddish yellow with light brownish gray, dry, low plasticity, cohesive	CL	
5		0.0				
		0.2				
		2.9		(6.5-6.8') SANDY CLAY, very firm, reddish yellow, very moist, low plasticity, cohesive	CL	Wet at 9' bgs
	100	5.9		(6.8-8.5') CLAY, hard, reddish yellow with light brownish gray, dry, low plasticity, cohesive	CL	
		1.3		(8.5-9') SANDY CLAY, firm, reddish yellow, very moist, low plasticity, cohesive	CL	
		0.0		(9-10') CLAYEY SAND grading to SAND with CLAY, medium dense, reddish yellow, wet, no plasticity, no cohesion	SC	
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B25-008-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010225
Project Description	: Sparrows Point - Parcel B25
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/19/18
Weather	: Sunny, 60s
Northing (US ft)	: 568451.53
Easting (US ft)	: 1464497.83

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		-	B25-008-SB-1	(0-0.2') TOPSOIL with mulch, loose, very dark brown, no plasticity, no cohesion	OL	
				(0.2-3.5') CLAY, hard, reddish yellow with light brownish gray, dry to moist, low plasticity, cohesive		
		-	B25-008-SB-2		CL	
	60	1.2				
		0.0	B25-008-SB-4			
				(3.5-5.5') SAND with CLAY, dense to medium dense, reddish yellow, wet, no plasticity, no cohesion		Wet at 4' bgs
		0.0			SW-SC	
5		0.0		(5.5-10') SANDY CLAY to CLAY with SAND, hard, reddish yellow with light brownish gray, dry to moist, low plasticity, cohesive		
		0.0			CL	
	100	0.5				
		0.8		(8-10') SAND with GRAVEL and SILT, medium to coarse, medium dense, brown, moist, no plasticity, no cohesion		
		0.6			SW	
10				End of boring		

Boring terminated at 15' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B25-009-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010225
Project Description	: Sparrows Point - Parcel B25
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/19/18
Weather	: Sunny, 60s
Northing (US ft)	: 568340.81
Easting (US ft)	: 1464364.50

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	90	0.0	B25-009-SB-1	(0-0.7') SANDY SILT, soft, dark brown, moist, low plasticity, cohesive	ML	
		0.0	B25-009-SB-2	(0.7-4.5') CLAYEY SAND, dense, reddish yellow, dry to moist, no plasticity, no cohesion	SC	
		0.0				
		0.0	B25-009-SB-4.5			Wet at 4.5' bgs
		0.0		(4.5-5.5') SAND with CLAY, very fine to medium, medium dense, reddish yellow, wet, no plasticity, no cohesion	SW-SC	
5		0.0		(5.5-10') CLAY with some SAND, hard, light brown gray with reddish yellow mottling, dry to moist, low plasticity, cohesive	CL	
	100	0.0				
		0.0				
		0.0				
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B25-010-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010225
Project Description	: Sparrows Point - Parcel B25
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/19/18
Weather	: Sunny, 60s
Northing (US ft)	: 568322.19
Easting (US ft)	: 1464427.69

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		-	B25-010-SB-1	(0-1') SILT with SAND, soft, dark brown, moist, low plasticity, cohesive	ML	Some organic matter at 1' bgs
		0.3	B25-010-SB-2	(1-10') SANDY CLAY, fine, very firm then soft from 3-4' bgs, hard from 4-10' bgs, light brown to light grayish brown and reddish yellow, very moist from 3-4' bgs then dry from 4-10' bgs, low plasticity, cohesive		
	90	0.1				
		0.0				
		0.5	B25-010-SB-5			
5		0.0			CL	
		0.0				
	100	0.0				
		0.0				
		0.0	B25-010-SB-10			
10		0.0		(10-15') CLAY, very firm to soft, light gray with pale brown mottling, dry to moist, low plasticity, cohesive		
		0.0				
	100	0.0			CL	
		0.0				
		0.0				
15		0.0		(15-20') CLAY, soft, light gray with reddish yellow mottling then brownish gray at 19' bgs, moist to very moist, low plasticity, cohesive		No water encountered
		0.0				
	100	0.0			CL	
		0.0				
		0.0				
20				End of boring		

Boring terminated at 20' bgs due to maximum allowable depth

ARM Group LLC
Engineers and Scientists

Boring ID: B25-011-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010225
Project Description	: Sparrows Point - Parcel B25
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/18/18
Weather	: Sunny, 60s
Northing (US ft)	: 568998.06
Easting (US ft)	: 1464378.59

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		0.3	B25-010-SB-1	(0-0.5) SAND with GRAVEL and some organic matter, loose, very dark brown, dry, no plasticity, no cohesion	SW/GW	
		40.7	B25-010-SB-2	(0.5-1.5') CLAYEY SAND, with some GRAVEL, dense, very dark brown, moist, no plasticity, no cohesion	SC	
	100	0.0		(1.5-2.4') CLAYEY SAND, hard, reddish yellow with light brown, dry, no plasticity, no cohesion	SC	
		012.8		(2.4-6.4') CLAY with trace SAND, hard, reddish yellow with light brown mottling, dry then soft from 5-6.4' bgs, low plasticity, cohesive	CL	
		0.2	B25-010-SB-5			
5		4.8				
		0.1		(6.4-7.5') CLAY, soft, very light gray, very moist, low plasticity, cohesive	CL	
	100	1.4		(7.5-16') CLAY with trace SAND, hard, reddish yellow with light gray, dry to moist, low plasticity, cohesive	CL	
		1.5				
		0.2	B25-010-SB-10			
10		8.9				
		26.1				
	100	1.7				
		2.6				
		0.1				
15		-				
		-		(16-19') CLAY, soft, brownish gray, very moist, low plasticity, cohesive	CL	
	70	0.0				
		0.0				
		0.1		(19-20') SAND, fine to coarse, brownish gray, wet, no plasticity, no cohesion	SW	Wet at 19' bgs
20				End of boring		

Boring terminated at 20' bgs due to maximum allowable depth

ARM Group LLC
Engineers and Scientists

Boring ID: B25-012-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010225
Project Description	: Sparrows Point - Parcel B25
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/22/18
Weather	: Sunny, 50s
Northing (US ft)	: 568112.20
Easting (US ft)	: 1464210.17

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
	96	0.1	B25-012-SB-1	(0-4.2') CLAY with SilLT, firm, reddish yellow to tan, dry, low plasticity, cohesive	CL	
		0.3	B25-012-SB-2			
		0.6				
		1.8				Wet at 5' bgs
		2.2	B25-012-SB-5	(4.2-5') SANDY CLAY, firm, reddish yellow to tan, moist, low plasticity, cohesive	CL	
5				(5-5.3') SILT with CLAY, very soft, tan to light brown, wet, low plasticity, cohesive	ML	
	100	0.2		(5.3-7.2') SILT grading to SAND, fine, soft grading to medium dense, reddish yellow, wet grading to moist, no plasticity, no cohesion	ML/SP	
		0.4				
		11.3		(7.2-10') CLAY, firm, reddish yellow to light gray, dry, medium plasticity, cohesive	CL	
		3.4				
		1.3				
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B25-013-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010225
Project Description	: Sparrows Point - Parcel B25
Site Location	: Sparrows Point, MD
ARM Representative	: L. Perrin
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/17/18
Weather	: Sunny, 60s
Northing (US ft)	: 569375.05
Easting (US ft)	: 1464067.49

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0		34.4	B25-013-SB-1	(0-1') SANDY SILT with heavy organic matter, soft, dark brown, dry, no plasticity, no cohesion	ML	
		7.0	B25-013-SB-2	(1-7.6') CLAY, very firm then hard at 1.8-5' bgs, then very firm grading to soft at 5-7.6' bgs, reddish yellow with pale brown mottling, dry then moist at 5' bgs grading to very moist, low plasticity, cohesive	CL	Wet at 8' bgs
	92	2.4				
		8.9				
		0.0				
5		1128	B25-013-SB-6			
		58.8				
	100	147.3		(7.6-8') SANDY CLAY, very firm, reddish yellow, very moist, low plasticity, cohesive	CL	
		0.4		(8-9.5') SILTY SAND, very fine to medium, dense, pale brown, wet, no plasticity, no cohesion	SM	
		0.3		(9.5-10') SAND, fine to coarse, medium dense to dense, yellowish red, wet, no plasticity, no cohesion	SW	
10				End of boring		

Boring terminated at 10' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: B25-014-SB

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010225
Project Description	: Sparrows Point - Parcel B25
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: Allied
Driller	: Tim Moyer
Drilling Equipment	: Geoprobe 77DT

Date	: 10/22/18
Weather	: Sunny, 50s
Northing (US ft)	: 568744.71
Easting (US ft)	: 1464138.08

Depth (ft.)	% Recovery	PID Reading (PPM)	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0						
		-	B25-014-SB-1	(0-2') SILT with SAND, fine, loose, brown, dry, no plasticity, no cohesion	ML	
		0.4	B25-014-SB-2			
	80	2.6		(2-8') SILT with SAND, fine to medium, loose, brown, dry, no plasticity, no cohesion	ML/SW	
		2.7				
		9.9				
5		-				
		3.1				
	80	10.6				
		28.3	B25-014-SB-9	(8-10') SAND with GRAVEL and SILT, medium to coarse, medium dense, brown, moist, no plasticity, no cohesion	SW	
		2.3				
10		19.6		(10-11') SILT with SAND, fine, loose, brown, dry, no plasticity, no cohesion	ML	Wet at 11' bgs
		6.2		(11-12') SAND and GRAVEL, coarse, dense, dark brown to black, wet, no plasticity, no cohesion	GW/SW	
	100	0.3		(12-13') CLAY, soft, black, moist, medium plasticity, cohesive	CL	
		0.2		(13-15') CLAY, soft grading to firm, light brown to tan grading to light gray, moist, medium plasticity, cohesive	CL	
		0.7				
15				End of boring		

Boring terminated at 15' bgs due to water

ARM Group LLC
Engineers and Scientists

Boring ID: Transect 1-1

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Parcel B7 Slag Delineation
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 12/08/2020
Weather	: Sunny, 30s
Northing (US ft)	: 569519.9
Easting (US ft)	: 1464143.1

Depth (ft.)	% Recovery	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0			(0-0.1') SLAG, GRAVEL-sized, gray, dry	GW	
			(0.1-1.7') SILTY SAND, loose, black and gray, dry, non-plastic, non-cohesive	SM	
2	100	None	(1.7-5') SANDY CLAY, hard, gray grading to light gray with yellowish red mottling, dry, low plasticity, cohesive	CL	No water encountered
5			End of Boring		
6					

Total Borehole Depth: 5' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: Transect 2-1

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Parcel B7 Slag Delineation
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 12/08/2020
Weather	: Sunny, 30s
Northing (US ft)	: 569660.9
Easting (US ft)	: 1464478.6

Depth (ft.)	% Recovery	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0	80	None	(0-1.5') SILT with CLAY and SAND, firm, brown, moist, non-plastic, non-cohesive	ML	No water encountered
1					
2			(1.5-3.5') SAND, coarse, medium dense, light brown and yellowish red, moist, non-plastic, non-cohesive	SP	
3					
4			(3.5-5') CLAY with SAND, firm, light gray with yellowish red mottling, moist, low plasticity, cohesive	CL	
5			End of Boring		
6					

Total Borehole Depth: 5' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: Transect 2-2

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Parcel B7 Slag Delineation
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 12/08/2020
Weather	: Sunny, 30s
Northing (US ft)	: 569710.3
Easting (US ft)	: 1464471.0

Depth (ft.)	% Recovery	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0	100	None	(0-4.7') CLAY wih SAND, firm, light gray with brown mottling, dry, low plasticity, cohesive	CL	No water encountered
5			(4.7-5') SAND, coarse, medium dense, light gray, moist, non-plastic, non-cohesive	SP	
6			End of Boring		

Total Borehole Depth: 5' bgs due to Work Plan.

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Boring ID: Transect 3-1

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Parcel B7 Slag Delineation
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 12/08/2020
Weather	: Sunny, 30s
Northing (US ft)	: 569614.0
Easting (US ft)	: 1464819.6

Depth (ft.)	% Recovery	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0					
1			(0-2.3') SLAG, GRAVEL-sized with some SAND-sized, loose, black and dark gray, moist, non-plastic, non-cohesive	GW	
2					No water encountered
	100	None	(2.3-5') CLAY, hard, light gray with light brown mottling, dry, low plasticity, cohesive	CL	
3					
4					
5			End of Boring		
6					

Total Borehole Depth: 5' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: Transect 3-2

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Parcel B7 Slag Delineation
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 12/08/2020
Weather	: Sunny, 30s
Northing (US ft)	: 569660.2
Easting (US ft)	: 1464838.6

Depth (ft.)	% Recovery	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0					
1	94	None	(0-2.1') SILT with SAND, firm, dark brown, moist, non-plastic, non-cohesive	ML	No water encountered
2			(2.1-5') CLAY with SAND, hard, light gray with yellowish brown mottling, moist, low plasticity, cohesive	CL	
3					
4					
5			End of Boring		
6					

Total Borehole Depth: 5' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: Transect 4-1

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Parcel B7 Slag Delineation
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 12/08/2020
Weather	: Sunny, 30s
Northing (US ft)	: 569412.1
Easting (US ft)	: 1464994.8

Depth (ft.)	% Recovery	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0	80	None	(0-4') SLAG, SAND and GRAVEL-sized, medium dense, brown, black, and gray, moist, non-plastic, non-cohesive	GW	No water encountered
4			(4-5') CLAY with SAND, hard, light gray with yellowish brown mottling, moist, low plasticity, cohesive	CL	
5			End of Boring		
6					

Total Borehole Depth: 5' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: Transect 4-2

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Parcel B7 Slag Delineation
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 12/08/2020
Weather	: Sunny, 30s
Northing (US ft)	: 569420.9
Easting (US ft)	: 1465044.0

Depth (ft.)	% Recovery	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0	92	None	(0-1.2') SLAG, SAND and GRAVEL-sized, medium dense, light gray and dark gray, moist, non-plastic, non-cohesive	GW	No water encountered
1			(1.2-4') CLAY, hard, light gray with yellowish red mottling, dry, low plasticity, cohesive	CL	
2					
3					
4			(4-5') CLAY with SAND, firm, light brown, dry, low plasticity, cohesive	CL	
5			End of Boring		
6					

Total Borehole Depth: 5' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: Transect 5-1

(page 1 of 1)

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Parcel B7 Slag Delineation
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 12/08/2020
Weather	: Sunny, 30s
Northing (US ft)	: 569290.4
Easting (US ft)	: 1464551.2

Depth (ft.)	% Recovery	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0	80	None	(0-4.5') SLAG, SAND and GRAVEL-sized, dark and light gray, moist, non-plastic, non-cohesive	GW	No water encountered
4.5			(4.5-5') CLAY with SAND, firm, light gray and light brown, dry, low plasticity, cohesive	CL	
5			End of Boring		
6					

Total Borehole Depth: 5' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

Boring ID: Transect 5-2

Client	: Tradepoint Atlantic
ARM Project No.	: 20010207
Project Description	: Parcel B7 Slag Delineation
Site Location	: Sparrows Point, MD
ARM Representative	: L. Glumac
Checked by	: M. Hritz, E.I.T.
Drilling Company	: GSI
Driller	: A. Berenbrok-Niblett
Drilling Equipment	: Geoprobe 7822DT

Date	: 12/08/2020
Weather	: Sunny, 30s
Northing (US ft)	: 569338.2
Easting (US ft)	: 1464565.9

Depth (ft.)	% Recovery	Sample No/Interval	DESCRIPTION	USCS	REMARKS
0	70	None	(0-5') CLAY with SAND and SILT, firm, brown, moist, low plasticity, cohesive, SLAG GRAVEL from 2.6-2.7' bgs and 4.1-4.2' bgs	CL	No water encountered
5			End of Boring		
6					

Total Borehole Depth: 5' bgs due to Work Plan.

ARM Group LLC
Engineers and Scientists

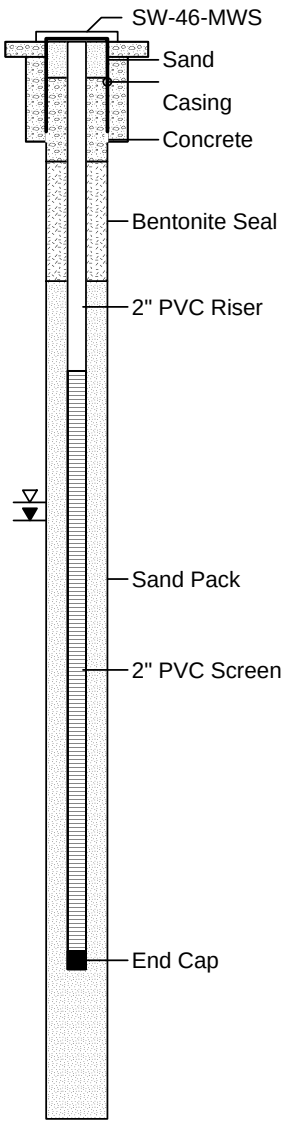
Well ID: SW-046-MWS

(page 1 of 1)

Project Name	: Sparrows Point
Project Number	: 150300M-10-3
Client	: EnviroAnalytics Group
Site	: Sparrows Point - Area B
Borehole Location	: Parcel B-7
ARM Representative	: Peter Vogel
Checked by	: Peter Vogel
Drilling Company	: Allied Well Drilling
Driller	: Mike Waller, Austin Bonacum
Drilling Equipment	: Diedrich-D120

Northing (ft)	: 569504.23
Easting (ft)	: 1464948.41
Date/Time Started	: 11/02/15 / 1400
Date/Time Completed	: 11/02/15 / 1600
Surf. Elev. (ft AMSL)	: 10.1
TOC Elev. (ft AMSL)	: 9.80
Total Depth (ft)	: 15.5' (bgs)
Depth to Water (ft)	: 8.0 (bgs) 11/03/15
Depth to Water (ft)	: 7.41' (TOC) 12/11/15
Bit/Auger Size (in.)	: 7.75" OD (4.25" ID) HSA

Depth (ft.)	Surf. Elev. 10.1	LITHOLOGIC DESCRIPTION
0	10.1	0-1' Gravelly SAND, gray to black, dense, dry (fill)
		1-2' Sandy SILT, light gray with some brown, very stiff, fine grained, dry (fill)
		2-3' Silty SAND, light gray, very stiff, fine grained sand with trace clay, moist (fill)
		3-4' Clayey SAND, tan to light gray, stiff, with trace coarse sand to fine gravel, moist (fill)
5	5.1	4-14' Clayey SILT, light gray to brown, medium stiff to stiff, mottled, moist; 2" seam of dark brown gravelly sand at ~13' bgs, slag gravel (fill)
10	.1	
15	-4.9	14-16' SAND, light brown, stiff, fine grained, wet
		16-18' SAND, tan, fine grained, medium stiff, fine grained, trace fine well rounded gravel, wet
		End of Boring
20		



COMPLETION DETAILS

2x2' concrete pad
8-inch Flush-mount
Protective Cover

Riser: Sch 40 PVC
Riser Diameter: 2 in
Riser Stickup (ags): -0.3
(Flush- Mount)

Screen: Sch 40 PVC
Screen Diameter: 2 in
Top of Screen: 5.5' bgs
Screen Amount: 10.0 lf
Slot Size: 0.020"

Bentonite Seal: 3/8" chips
Top: 2.0' Bottom: 4.0'
Filter Pack: Filpro WG2
Top: 4.0' Bottom: 16.0'

Monitoring Well Development
Date: 11/09/15
Purged Amount: 50 gal.
Well Volumes Removed: 28
Time Started/Completed:
1515/1755

TOC - Top of PVC Casing
AMSL - Above Mean Sea Level
ags - above ground surface
bgs - below ground surface

APPENDIX C

Parcel B7 & Parcel B25 - PID Calibration Log

PROJECT NAME: Area B, Parcel B7 & B25 Phase II				**SAMPLER NAME:** L. Perrin, L. Glumac, M. Kedenburg			
PROJECT NUMBER: 20010207 & 20010225				**DATE:** October 2018 - December 2020		**PAGE** 1 of 1	
DATE/TIME	SAMPLER INITIALS	PID SERIAL #	FRESH AIR CAL	STANDARD	STANDARD CONCENTRATION	METER READING	COMMENTS
10/1/2018 10:20	MK	592-913262	0.0	Isobutylene	100 ppm	100.0	-
10/2/2018 8:20	MK	592-913262	0.0	Isobutylene	100 ppm	100.0	-
10/3/2018 8:25	LLP	592-913262	0.0	Isobutylene	100 ppm	100.0	-
10/4/2018 8:10	MK	592-913262	0.0	Isobutylene	100 ppm	101.0	-
10/5/2018 8:15	LLP	592-913262	0.0	Isobutylene	100 ppm	99.8	-
10/8/2018 8:30	MK	592-913262	0.0	Isobutylene	100 ppm	100.0	-
10/17/2018 8:20	MK	592-913262	0.0	Isobutylene	100 ppm	100.2	-
10/18/2018 8:45	MK	592-913262	0.0	Isobutylene	100 ppm	100.0	-
10/19/2018 8:30	MK	592-913262	0.0	Isobutylene	100 ppm	100.0	-
10/22/2018 11:35	MK	592-913262	0.0	Isobutylene	100 ppm	100.0	-
10/30/2018 9:30	MK	592-913262	0.0	Isobutylene	100 ppm	99.6	-
10/31/2018 8:45	MK	12673	0.0	Isobutylene	100 ppm	100.0	-
3/7/2019 9:40	LLP	592-913262	0.0	Isobutylene	100 ppm	100.0	-
3/8/2019 8:20	LLP	592-913262	0.0	Isobutylene	100 ppm	100.0	-
9/18/2019 9:00	LMG	592-913262	0.0	Isobutylene	100 ppm	100.0	-
12/7/2020 8:45	LLP	032401	0.0	Isobutylene	100 ppm	100.0	-
12/8/2020 8:15	LLP	032401	0.0	Isobutylene	100 ppm	100.0	-
12/10/2020 11:00	LMG	032401	0.0	Isobutylene	100 ppm	100.0	-
12/21/2020 NR	NR	NR	NR	Isobutylene	100 ppm	NR	-

NR: indicates that the PID calibration was not recorded on 12/21/2020.

APPENDIX D

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineering and Consultants

Project Name: B7 Phase II	Project Number: 20010207
Well Number: B7-053-P2	Date: 12/18/20
Well Diameter (in): 1	One Well Volume (gal):
Depth to Product (ft): none	QED Controller Settings:
Depth to Water (ft): 2.68	Flow Rate (mL/min) 450
Product Thickness (ft): -	Length of time Purged (min)
Depth to Bottom (ft): 14.97	Condition of Pad/Cover: /

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1220	.6		30.19	4.60	0.498	0.00	119	NA	turbid
1225	1.2		28.13	5.53	0.497	1.95	78	4	Δ flow to 300
1230	1.8								
1235	2.4		purged dry						

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
	1300	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LMC

Comments:

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineering and Consultants

Project Name: 20010207 B7 Phase II	Project Number: 20010207
Well Number: B7-053-PZ	Date: 12/30/20
Well Diameter (in): 1"	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 3.23' TOC	Flow Rate (mL/min) 100 ml/min
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 15.15' TOC	Condition of Pad/Cover: /

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1148	0	3.23	8.87	9.80	0.574	0.0	113	0.0	
1153	0.13	7.60	8.96	9.03	0.586	0.0	95	197	
1158	0.26	9.73	9.09	8.79	0.588	0.0	47	992	
1203	0.39	11.67	9.14	8.61	0.590	0.0	28	996	
1208	0.52	13.60	9.20	8.47	0.591	3.43	-16	881	
1213	~0.65	—							purged dry

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
B7-053-PZ	1350	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	X
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LEP

Comments: Purged dry, returned to sample later
DTW @ sampling: 3.97' TOC
Run 5 min before sampling @ 1350

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
~~Permanent Wells~~

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: B7 P. Dev.	Project Number: 20010207
Well Number: B7-060-PZ	Date: 12/11/20
Well Diameter (in): 1	One Well Volume (gal):
Depth to Product (ft): ND 4/D	QED Controller Settings:
Depth to Water (ft): 7.61 x TOC	Flow Rate (mL/min) 500
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 22.22 ' TOC	Condition of Pad/Cover:

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1220	2		11.58	5.71	0.493	0.00	24	82.9	
1225	2.6		11.99	5.61	0.490	0.00	15	78.4	
1230	3.2		12.20	5.52	0.487	0.00	5	77.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
	1235	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		~~TCL-SVOCs~~	~~2- 1 L Amber~~	~~none~~	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LMG

Comments:

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
~~Permanent Wells~~

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: B7 P. Dev.	Project Number: 20010207
Well Number: B7-0164-PZ	Date: 12/11/20
Well Diameter (in): 1	One Well Volume (gal):
Depth to Product (ft): no L/D	QED Controller Settings:
Depth to Water (ft): 5.81' TOC	Flow Rate (mL/min) 400
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 17.00' TOC	Condition of Pad/Cover:

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1055	0.3		13.60	5.64	0.153	3.56	140	NM	turbid
1100	1.7		13.39	5.73	0.150	0.56	34	26.5	
1105	1.1		13.17	5.90	0.168	0.04	28	93.2	
1110	1.5		12.95	5.68	0.156	0.00	38	82.4	
1115	1.9		12.84	5.50	0.131	0.00	47	68.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
	1120	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		~~TCL-SVOCs~~	~~2- 1 L Amber~~	~~none~~	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LMH

Comments:

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: B7 P. Del.	Project Number: 20010207
Well Number: B7-065-PZ	Date: 12/11/20
Well Diameter (in): 1	One Well Volume (gal):
Depth to Product (ft): no LPD	QED Controller Settings:
Depth to Water (ft): 10.26	Flow Rate (mL/min) 450
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 16.24	Condition of Pad/Cover:

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
0950	0.3		15.84	4.99	0.929	1.96	95	444	turbid
0955	0.8		15.44	4.59	0.964	0.28	79	103.7	clear
1000	1.3		15.04	4.65	0.979	0.04	67	70.2	
1005	1.8		14.77	4.73	0.985	0.12	59	66.8	
1010	2.3		14.56	4.82	0.990	0.30	44	31.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
		TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
	1015	Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LMB

Comments:

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineering and Consultants

Project Name: 87 Phase II	Project Number: 20010209
Well Number: SW-076-MWS	Date: 12/18/20
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): none	QED Controller Settings:
Depth to Water (ft): 7.32	Flow Rate (mL/min) 450
Product Thickness (ft): —	Length of time Purged (min)
Depth to Bottom (ft): 15.51	Condition of Pad/Cover: /

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
0900	1.2	7.32	13.41	5.09	0.551	0.00	185	7.44	
0905	1.6	"	13.82	5.04	0.544	0.00	193	7.32	
0910	2	"	13.67	5.03	0.536	0.00	197	6.94	
0915	2.4	"	13.44	5.00	0.528	0.00	200	6.43	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
	0920	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LMG

Comments:

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: B7 Phase II	Project Number: 20016207
Well Number: SW-046-MW5	Date: 12/30/20
Well Diameter (in): 2"	One Well Volume (gal):
Depth to Product (ft):	QED Controller Settings:
Depth to Water (ft): 7.97' TOC	Flow Rate (mL/min) 150 ml/min
Product Thickness (ft):	Length of time Purged (min)
Depth to Bottom (ft): 15.72' TOC	Condition of Pad/Cover: /

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1254	0	7.97'	10.20	8.29	0.482	0.34	8	269	
1259	0.2	8.01'	10.67	6.67	0.491	0.00	149	172	
1304	0.4	8.00'	11.21	6.17	0.485	0.00	168	91.1	
1309	0.6	8.00'	11.63	5.96	0.476	0.00	179	50.5	
1314	0.8	8.00'	11.89	5.87	0.472	0.0	184	39.2	
1319	1.0	7.99'	12.22	5.81	0.466	0.0	189	30.3	
1324	1.2	7.99'	12.59	5.76	0.462	0.0	190	21.9	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
SW-046-MW5	1325	TCL-VOCs	3 - 40 mL VOA	HCl	X
		TPH-GRO	3 - 40 mL VOA	HCl	X
		TPH-DRO	2 - 1 L Amber	none	X
		TCL-SVOCs	2- 1 L Amber	none	X
		Oil & Grease	2- 1 L Amber	HCl	X
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	X
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	X
		Total Cyanide	1 - 250 mL Plastic	NaOH	X
	1451	TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	X
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	X
		PCB	2 - 1 L Amber	None	
		Matrix Spike			X
		Duplicate			X

Hex Chrom only

Sampled By: LEP

Comments: MS/MSD

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

TABLE 1
MULTIPARAMETER CALIBRATION LOG

Project Name Area B Parcel B7 Phase II Date 12-11-20
Weather 40s, Cloudy
Calibrated by L. Glumac Instrument (Serial Number) Horiba U-52 (2BOMSAX4)
Lamotte 2020t (1223-1319)

Parameters	Morning Calibration	Morning Temperature	End of Day Calibration Check	End of Day Temperature
Specific Conductance Standard	4.49	34 F	-	61 F (est.)
Specific Conductance Standard #2	-		-	
pH (7)	-		-	
pH (4)	4.00		-	
pH(10)	-		-	
ORP Zobel Solution (240 mV)	-		-	
Dissolved Oxygen 100% water saturated air mg/L	9.06¥		-	
Dissolved Oxygen Zero Dissolved Oxygen Solution mg/L	-		-	
Barometric Pressure mm Hg	760.22		760.48 (est.)	
Turbidity #1 (0 NTU)	0.0		-	
Turbidity #2 (1 NTU)	1.0		-	
Turbidity #3 (10 NTU)	10		-	

¥ Dissolved Oxygen were outside of the calibration acceptance criteria. Post-calibration check was not performed. Values displayed on field purge logs may be inaccurate.

TABLE 1
MULTIPARAMETER CALIBRATION LOG

Project Name Area B Parcel B7 Phase II Date 12-18-20
Weather 30s, Cloudy
Calibrated by L. Glumac Instrument (Serial Number) Horiba U-52 (2BOMSAX4)
Lamotte 2020t (1223-1319)

Parameters	Morning Calibration	Morning Temperature	End of Day Calibration Check	End of Day Temperature
Specific Conductance Standard	4.49	36 F	4.53	31 F
Specific Conductance Standard #2	-		-	
pH (7)	-		-	
pH (4)	4.00		4.02	
pH(10)	-		-	
ORP Zobel Solution (240 mV)	-		-	
Dissolved Oxygen 100% water saturated air mg/L	9.97¥		10.01¥	
Dissolved Oxygen Zero Dissolved Oxygen Solution mg/L	-		-	
Barometric Pressure mm Hg	762.25		763.27	
Turbidity #1 (0 NTU)	0.0		-	
Turbidity #2 (1 NTU)	1.0		-	
Turbidity #3 (10 NTU)	10		9.97	

¥ Dissolved Oxygen were outside of the calibration acceptance criteria. Values displayed on field purge logs may be inaccurate.

TABLE 1
MULTIPARAMETER CALIBRATION LOG

Project Name Area B Parcel B7 Phase II Date 12-30-20
Weather 40s, Sunny
Calibrated by L. Parker Instrument (Serial Number) Horiba U-52 (2BOMSAX4)

Parameters	Morning Calibration	Morning Temperature	End of Day Calibration Check	End of Day Temperature
Specific Conductance Standard	4.49	31 F	4.53	44 F
Specific Conductance Standard #2	-		-	
pH (7)	-		-	
pH (4)	4.01		3.93	
pH(10)	-		-	
ORP Zobel Solution (240 mV)	-		-	
Dissolved Oxygen 100% water saturated air mg/L	10.06¥		9.08¥	
Dissolved Oxygen Zero Dissolved Oxygen Solution mg/L	-		-	
Barometric Pressure mm Hg	774.95		768.35	
Turbidity #1 (0 NTU)	-		-	
Turbidity #2 (1 NTU)	-		-	
Turbidity #3 (10 NTU)	-		-	

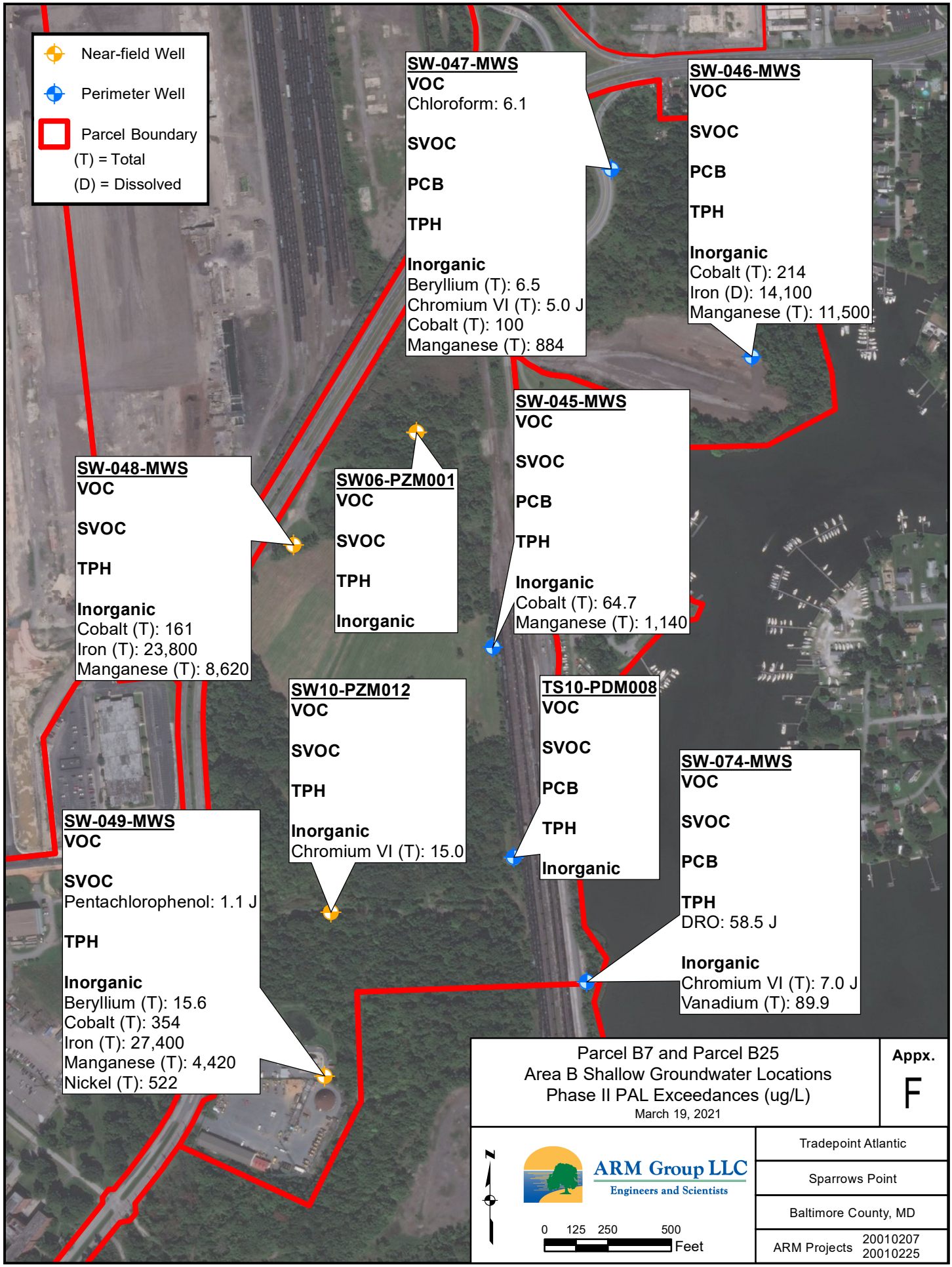
¥ Dissolved Oxygen were outside of the calibration acceptance criteria. Values displayed on field purge logs may be inaccurate.

APPENDIX E

Parcel B7 & Parcel B25 - IDW Drum Log

Drum Identification Number	Designation	Activity/Phase	Contents	Open Date
1073-PPE-10/1/18-B7	Non. Haz.	Parcel B7 Phase II Investigation	PPE	10/1/2018
1074-Soil-10/1/18-B7	Non. Haz.	Parcel B7 Phase II Investigation	Soil	10/1/2018
1075-Liners-10/1/18-B7	Non. Haz.	Parcel B7 Phase II Investigation	Liners	10/1/2018
1087-Nitric Acid-10/15/18-Various	Non. Haz.	Parcel B7 Phase II Investigation	Nitric Acid	10/15/2018
1089-Soil-10/17/18-B25	Non. Haz.	Parcel B25 Phase II Investigation	Soil	10/17/2018
1090-Liners-10/17/18-B25	Non. Haz.	Parcel B25 Phase II Investigation	Liners	10/17/2018
1091-PPE-10/17/18-B25	Non. Haz.	Parcel B25 Phase II Investigation	PPE	10/17/2018
1092-Decon Water-10/17/18-B25	Non. Haz.	Parcel B25 Phase II Investigation	Water	10/17/2018
1107-Soil-10/31/18-B7	Non. Haz.	Parcel B7 Phase II Investigation	Soil	10/31/2018
1159-Decon Water-2/28/19-B7	Non. Haz.	Parcel B7 Phase II Investigation	Water	2/28/2019
1160-PPE-2/28/19-B7	Non. Haz.	Parcel B7 Phase II Investigation	PPE	2/28/2019
1161-Liners-3/10/19-B7	Non. Haz.	Parcel B7 Phase II Investigation	Liners	3/10/2019
1260-Soil-9/18/19-B7	Non. Haz.	Parcel B7 Phase II Investigation	Soil	9/18/2019
1261-Liners-9/18/19-B7	Non. Haz.	Parcel B7 Phase II Investigation	Liners	9/18/2019
1262-PPE-9/18/19-B7	Non. Haz.	Parcel B7 Phase II Investigation	PPE	9/18/2019
1269-Water-9/11/19-A8/A10/B4/B23/B7/A6	Non. Haz.	Parcel B7 Phase II Investigation	Water	9/11/2019
1452-Decon Water-12/7/2020-B7	Non. Haz.	Parcel B7 Phase II Investigation	Water	12/7/2020
1453-Purge Water-12/30/2020-B7	Non. Haz.	Parcel B7 Phase II Investigation	Water	12/30/2020
1454-Soil-12/7/2020-B7	Non. Haz.	Parcel B7 Phase II Investigation	Soil	12/7/2020
1455-Purge Water-12/3/20	Non. Haz.	Parcel B7 Phase II Investigation	Water	12/3/2020

APPENDIX F


Near-field Well
Perimeter Well
Parcel Boundary
(T) = Total
(D) = Dissolved
SW-047-MWS
VOC
Chloroform: 6.1
SVOC
PCB
TPH
Inorganic
Beryllium (T): 6.5
Chromium VI (T): 5.0 J
Cobalt (T): 100
Manganese (T): 884
SW-046-MWS
VOC
SVOC
PCB
TPH
Inorganic
Cobalt (T): 214
Iron (D): 14,100
Manganese (T): 11,500
SW-045-MWS
VOC
SVOC
PCB
TPH
Inorganic
Cobalt (T): 64.7
Manganese (T): 1,140
SW-048-MWS
VOC
SVOC
TPH
Inorganic
Cobalt (T): 161
Iron (T): 23,800
Manganese (T): 8,620
SW06-PZM001
VOC
SVOC
TPH
Inorganic
SW10-PZM012
VOC
SVOC
TPH
Inorganic
Chromium VI (T): 15.0
TS10-PDM008
VOC
SVOC
PCB
TPH
Inorganic
SW-074-MWS
VOC
SVOC
PCB
TPH
DRO: 58.5 J
Inorganic
Chromium VI (T): 7.0 J
Vanadium (T): 89.9
SW-049-MWS
VOC
SVOC
Pentachlorophenol: 1.1 J
TPH
Inorganic
Beryllium (T): 15.6
Cobalt (T): 354
Iron (T): 27,400
Manganese (T): 4,420
Nickel (T): 522
Parcel B7 and Parcel B25
Area B Shallow Groundwater Locations
Phase II PAL Exceedances (ug/L)
March 19, 2021
Appx.
F
N
ARM Group LLC
Engineers and Scientists
0 125 250 500
Feet
Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Projects 20010207
20010225

APPENDIX G

QA/QC Tracking Log

Trip Blank:	Date:	Sample IDs:	
	10/1/2018	1) B7-014-SB-1	QA/QC for all B7 soil samples
		2) B7-014-SB-2	
		3) B7-014-SB-5	
		4) B7-014-SB-10	
		5) B7-015-SB-1	
		6) B7-015-SB-2	
		7) B7-015-SB-5	Duplicate: B7-014-SB-5
		8) B7-015-SB-10	Date: 10/1/2018
TB1	10/2/2018	9) B7-003-SB-1	MS/MSD: B7-003-SB-6
		10) B7-003-SB-2	Date: 10/2/2018
		11) B7-003-SB-6	Field Blank:
		12) B7-003-SB-10	Date: 10/1/2018
		13) B7-002-SB-1	Eq. Blank:
		14) B7-002-SB-5	Date: 10/1/2018
		15) B7-002-SB-9	
		16) B7-002-SB-10	
		17) B7-001-SB-1	
		18) B7-001-SB-2	
		19) B7-001-SB-5	
		20) B7-001-SB-10	

Trip Blank:	Date:	Sample IDs:	
	10/4/2018	1) B7-028-SB-1	QA/QC for all B7 soil samples
		2) B7-028-SB-2	
		3) B7-036-SB-1	
		4) B7-036-SB-2	
		5) B7-036-SB-5	
		6) B7-044-SB-1	
		7) B7-044-SB-2	Duplicate: B7-028-SB-2
		8) B7-044-SB-5	Date: 10/4/2018
		9) B7-042-SB-1	MS/MSD: B7-036-SB-5
		10) B7-042-SB-2	Date: 10/4/2018
		11)	Field Blank:
		12) B7-042-SB-5	Date: 10/5/2018
		13) B7-033-SB-1	Eq. Blank:
		14) B7-033-SB-2	Date: 10/5/2018
		15) B7-033-SB-5	
TB1	10/5/2018	16) B7-035-SB-1	
		17) B7-035-SB-2	
		18) B7-035-SB-5	
		19) B7-037-SB-1	
		20) B7-037-SB-2	

Trip Blank:	Date:	Sample IDs:	
TB1	10/2/2018	1) B7-038-SB-1	QA/QC for all B7 soil samples
		2) B7-038-SB-2	
		3) B7-038-SB-8	
		4) B7-038-SB-10	
		5) B7-034-SB-1	
		6) B7-034-SB-2	
		7) B7-034-SB-7	Duplicate: B7-038-SB-8
		8) B7-040-SB-1	Date: 10/2/2018
		9) B7-040-SB-2	MS/MSD: B7-041-SB-5
		10) B7-040-SB-7	Date: 10/3/2018
		11) B7-040-SB-10	Field Blank:
TB1	10/3/2018	12) B7-041-SB-1	Date: 10/2/2018
		13) B7-041-SB-2	Eq. Blank:
		14) B7-041-SB-5	Date: 10/2/2018
		15) B7-030-SB-1	
		16) B7-030-SB-2	
		17) B7-049-SB-1	
		18) B7-049-SB-5	
		19) B7-047-SB-1	
		20) B7-047-SB-5	

Trip Blank:	Date:	Sample IDs:	
TB1	10/5/2018	1) B7-037-SB-5	QA/QC for all B7 soil samples
		2) B7-043-SB-1	
		3) B7-043-SB-2	
		4) B7-043-SB-4	
		5) B7-029-SB-1	
		6) B7-029-SB-2	
		7) B7-029-SB-5	Duplicate: B7-043-SB-4
		8) B7-019-SB-1	Date: 10/5/2018
		9) B7-019-SB-8	MS/MSD: B7-029-SB-5
		10) B7-018-SB-1	Date: 10/5/2018
		11) B7-018-SB-5	Field Blank:
		12) B7-009-SB-1	Date: 10/5/2018
		13) B7-009-SB-7	Eq. Blank:
		14) B7-009-SB-10	Date: 10/5/2018
		15) B7-011-SB-1	
		16) B7-011-SB-6	
		17) B7-011-SB-10	
		18) B7-046-SB-1	
		19) B7-046-SB-4	
		20) B7-046-SB-10	

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:		
	10/8/2018	1)	B7-050-SB-1	QA/QC for all B7 soil samples
		2)	B7-050-SB-5	
		3)	B7-050-SB-10	
		4)	B7-010-SB-1	
		5)	B7-010-SB-5	
		6)	B7-048-SB-1	
		7)	B7-048-SB-5	Duplicate: B7-048-SB-5
		8)	B7-048-SB-10	Date: 10/8/2020
		9)	B7-031-SB-1	MS/MSD: B7-031-SB-5
		10)	B7-031-SB-2	Date: 10/8/2018
		11)	B7-031-SB-5	Field Blank:
TB1	10/30/2018	12)	B7-045-SB-1.5	Date: 10/8/2018
		13)	B7-027-SD	Eq. Blank:
		14)	B7-026-SD	Date: 10/8/2018
		15)	B7-045-SB-5	
		16)	B7-045-SB-10	
		17)	B7-023-SB-1.5	
		18)	B7-023-SB-5	
		19)	B7-005-SB-1	
		20)	B7-005-SB-5	

Trip Blank:	Date:	Sample IDs:		
TB	3/7/2019	1)	B7-051-SB-1	QA/QC for all B7 soil samples
		2)	B7-051-SB-5	
		3)	B7-007-SB-1	
		4)	B7-007-SB-5	
		5)	B7-007-SB-10	
		6)	B7-052-SB-1	
		7)	B7-052-SB-4	Duplicate: B7-052-SB-4
TB	3/8/2019	8)	B7-021-SB-1	Date: 3/7/2019
		9)	B7-021-SB-4	MS/MSD: B7-024-SB-4
		10)	B7-024-SB-1	Date: 3/8/2019
		11)	B7-024-SB-4	Field Blank:
		12)	B7-025-SB-1	Date: 3/8/2019
		13)	B7-025-SB-5	Eq. Blank:
		14)	B7-020-SB-1.5	Date: 3/8/2019
		15)	B7-020-SB-5	
		16)	B7-020-SB-10	
		17)	B7-008-SB-1.5	
		18)	B7-008-SB-4	
		19)		
		20)		

Trip Blank:	Date:	Sample IDs:		
TB1	10/30/2018	1)	B7-005-SB-10	QA/QC for all B7 soil samples
		2)	B7-022-SB-1.5	
		3)	B7-022-SB-5	
		4)	B7-022-SB-10	
	10/31/2018	5)	B7-006-SB-1	
		6)	B7-006-SB-5	
		7)	B7-004-SB-1	Duplicate: B7-006-SB-5
		8)	B7-004-SB-5	Date: 10/30/2018
		9)	B7-004-SB-10	MS/MSD: B7-022-SB-10
		10)		Date: 10/30/2018
		11)		Field Blank:
		12)		Date: 10/30/2018
		13)		Eq. Blank:
		14)		Date: 10/30/2018
		15)		
		16)		
		17)		
		18)		
		19)		
		20)		

Trip Blank:	Date:	Sample IDs:		
TB	9/18/2019	1)	B7-013-SB-1	QA/QC for all B7 soil samples
		2)	B7-013-SB-4	
		3)	B7-012-SB-1	
		4)	B7-012-SB-5	
		5)	B7-016-SB-1	
		6)	B7-016-SB-8	
		7)	B7-016-SB-10	Duplicate: B7-012-SB-5
		8)	B7-017-SB-1	Date: 9/18/2019
		9)	B7-017-SB-4	MS/MSD: B7-016-SB-8
		10)	B7-017-SB-10	Date: 9/18/2019
		11)	B7-062-SB-1	Field Blank:
		12)	B7-062-SB-5	Date: 9/18/2019
		13)	B7-063-SB-1	Eq. Blank:
		14)	B7-063-SB-8	Date: 9/18/2019
		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:	
		1)	B7-053-SB-1	QA/QC for all B7 soil samples
		2)	B7-053-SB-2	
		3)	B7-053-SB-5	
		4)	B7-054-SB-1	
		5)	B7-054-SB-2	
		6)	B7-054-SB-5	
		7)	B7-054-SB-10	Duplicate: B7-059-SB-5
		8)	B7-056-SB-1	Date: 12/7/2020
		9)	B7-056-SB-2	MS/MSD: B7-058-SB-5
TB1	12/7/2020	10)	B7-056-SB-5	Date: 12/7/2020
		11)	B7-056-SB-10	Field Blank:
		12)	B7-059-SB-1	Date: 12/7/2020
		13)	B7-059-SB-2	Eq. Blank:
		14)	B7-059-SB-5	Date: 12/7/2020
		15)	B7-059-SB-10	
		16)	B7-058-SB-1	
		17)	B7-058-SB-2	
		18)	B7-058-SB-5	
		19)	B7-058-SB-10	
TB1	12/8/2020	20)	B7-060-SB-1	

Trip Blank:	Date:		Sample IDs:	
TB1	12/21/2020	1)	B7-032-SB-2	QA/QC for all B7 soil samples
		2)	B7-032-SB-5	
		3)		
		4)		
		5)		
		6)		
		7)		Duplicate: B7-032-SB-2
		8)		Date: 12/21/2020
		9)		MS/MSD: B7-032-SB-1
		10)		Date: 12/21/2020
		11)		Field Blank:
		12)		Date: 12/21/2020
		13)		Eq. Blank:
		14)		Date: 12/21/2020
		15)		
		16)		
		17)		
		18)		
		19)		
		20)		

		1)	B7-060-SB-2	QA/QC for all B7 soil samples
		2)	B7-060-SB-5	
		3)	B7-060-SB-10	
TB1	12/8/2020	4)	B7-055-SB-1	
		5)	B7-055-SB-2	
		6)	B7-055-SB-5	
		7)	B7-055-SB-10	Duplicate: B7-061-SB-4
		8)	B7-061-SB-1	Date: 12/10/2020
		9)	B7-061-SB-2	MS/MSD: B7-055-SB-5
		10)	B7-061-SB-4	Date: 12/8/2020
		11)	B7-065-SB-1	Field Blank:
		12)	B7-065-SB-2	Date: 12/8/2020
		13)	B7-065-SB-5	Eq. Blank:
TB1	12/10/2020	14)	B7-064-SB-1	Date: 12/8/2020
		15)	B7-064-SB-2	
		16)	B7-064-SB-5	
		17)	B7-057-SB-1	
		18)	B7-057-SB-2	
		19)	B7-057-SB-5	
TB1	12/21/2020	20)	B7-032-SB-1	

TB	12/11/2020	1)	B7-065-PZ	QA/QC for all recent B7 groundwater samples
		2)	B7-064-PZ	
		3)	B7-060-PZ	
TB	12/18/2020	4)	SW-046-MWS	
		5)	B7-053-PZ	
TB	12/30/2020	6)	SW-046-MWS	
		7)	B7-053-PZ	Duplicate: SW-046-MWS
		8)		Date: 12/30/2020
		9)		MS/MSD: SW-046-MWS
		10)		Date: 12/18/2020
		11)		Field Blank: 12/18/20
		12)		Date: &12/30/20
		13)		Eq. Blank:
		14)		Date:
		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:	
TB1	10/17/2018	1)	B25-013-SB-1	QA/QC for all B25 soil samples
		2)	B25-013-SB-2	
		3)	B25-013-SB-6	
		4)	B25-001-SB-1	
		5)	B25-001-SB-2	
		6)	B25-001-SB-4	
		7)	B25-002-SB-1	Duplicate: B25-013-SB-6
		8)	B25-002-SB-2	Date: 10/17/2018
		9)	B25-002-SB-5	MS/MSD: B25-002-SB-2
		10)	B25-003-SB-1	Date: 10/17/2018
		11)	B25-003-SB-2	Field Blank:
		12)	B25-003-SB-4	Date: 10/17/2018
TB1	10/18/2018	13)	B25-004-SB-1	Eq. Blank:
		14)	B25-004-SB-2	Date: 10/17/2018
		15)	B25-004-SB-4	
		16)	B25-011-SB-1	
		17)	B25-011-SB-2	
		18)	B25-011-SB-4	
		19)	B25-011-SB-10	
TB1	10/19/2018	20)	B25-005-SB-1	

Trip Blank:	Date:		Sample IDs:	
TB1	10/22/2018	1)	B25-014-SB-9	QA/QC for all B25 soil samples
		2)	B25-014-SB-10	
		3)	B25-012-SB-1	
		4)	B25-012-SB-2	
		5)	B25-012-SB-5	
		6)		
		7)		Duplicate: B25-014-SB-9
		8)		Date: 10/22/2018
		9)		MS/MSD: B25-012-SB-5
		10)		Date: 10/22/2018
		11)		Field Blank:
		12)		Date: 10/22/2018
		13)		Eq. Blank:
		14)		Date: 10/22/2018
		15)		
		16)		
		17)		
		18)		
		19)		
		20)		

TB1	10/19/2018	1)	B25-005-SB-2	QA/QC for all B25 soil samples
		2)	B25-005-SB-5	
		3)	B25-006-SB-1	
		4)	B25-006-SB-2	
		5)	B25-006-SB-7	
		6)	B25-007-SB-1	
		7)	B25-007-SB-2	Duplicate: B25-005-SB-5
		8)	B25-007-SB-4	Date: 10/19/2018
TB2		9)	B25-008-SB-1	MS/MSD: B25-006-SB-7
		10)	B25-008-SB-2	Date: 10/19/2018
		11)	B25-008-SB-4	Field Blank:
		12)	B25-010-SB-1	Date: 10/19/2018
		13)	B25-010-SB-2	Eq. Blank:
		14)	B25-010-SB-5	Date: 10/19/2018
		15)	B25-010-SB-10	
		16)	B25-009-SB-1	
		17)	B25-009-SB-2	
		18)	B25-009-SB-4.5	
TB1	10/22/2018	19)	B25-014-SB-1	
		20)	B25-014-SB-2	

	1)		
	2)		
	3)		
	4)		
	5)		
	6)		
	7)		Duplicate:
	8)		Date:
	9)		MS/MSD:
	10)		Date:
	11)		Field Blank:
	12)		Date:
	13)		Eq. Blank:
	14)		Date:
	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.

APPENDIX H

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	Sediment	2	2	0	2	100.00%
Aluminum	Metal	Sediment	2	2	0	2	100.00%
Antimony	Metal	Sediment	2	0	0	2	100.00%
Arsenic	Metal	Sediment	2	2	0	2	100.00%
Barium	Metal	Sediment	2	2	0	2	100.00%
Beryllium	Metal	Sediment	2	2	0	2	100.00%
Cadmium	Metal	Sediment	2	2	0	2	100.00%
Chromium	Metal	Sediment	2	2	0	2	100.00%
Chromium VI	Metal	Sediment	2	0	0	2	100.00%
Cobalt	Metal	Sediment	2	2	0	2	100.00%
Copper	Metal	Sediment	2	2	0	2	100.00%
Iron	Metal	Sediment	2	2	0	2	100.00%
Lead	Metal	Sediment	2	2	0	2	100.00%
Manganese	Metal	Sediment	2	2	0	2	100.00%
Mercury	Metal	Sediment	2	2	0	2	100.00%
Nickel	Metal	Sediment	2	2	0	2	100.00%
Selenium	Metal	Sediment	2	0	0	2	100.00%
Silver	Metal	Sediment	2	0	0	2	100.00%
Thallium	Metal	Sediment	2	0	0	2	100.00%
Vanadium	Metal	Sediment	2	2	0	2	100.00%
Zinc	Metal	Sediment	2	2	0	2	100.00%
Aroclor 1016	PCB	Sediment	2	0	0	2	100.00%
Aroclor 1221	PCB	Sediment	2	0	0	2	100.00%
Aroclor 1232	PCB	Sediment	2	0	0	2	100.00%
Aroclor 1242	PCB	Sediment	2	0	0	2	100.00%
Aroclor 1248	PCB	Sediment	2	0	0	2	100.00%
Aroclor 1254	PCB	Sediment	2	0	0	2	100.00%
Aroclor 1260	PCB	Sediment	2	0	0	2	100.00%
Aroclor 1262	PCB	Sediment	2	0	0	2	100.00%
Aroclor 1268	PCB	Sediment	2	0	0	2	100.00%
PCBs (total)	PCB	Sediment	2	0	0	2	100.00%
1,1-Biphenyl	SVOC	Sediment	2	0	0	2	100.00%
1,2,4,5-Tetrachlorobenzene	SVOC	Sediment	2	0	0	2	100.00%
2,3,4,6-Tetrachlorophenol	SVOC	Sediment	2	0	0	2	100.00%
2,4,5-Trichlorophenol	SVOC	Sediment	2	0	0	2	100.00%
2,4,6-Trichlorophenol	SVOC	Sediment	2	0	0	2	100.00%
2,4-Dichlorophenol	SVOC	Sediment	2	0	0	2	100.00%
2,4-Dimethylphenol	SVOC	Sediment	2	0	0	2	100.00%
2,4-Dinitrophenol	SVOC	Sediment	2	0	0	2	100.00%
2,4-Dinitrotoluene	SVOC	Sediment	2	0	0	2	100.00%
2,6-Dinitrotoluene	SVOC	Sediment	2	0	0	2	100.00%
2-Chloronaphthalene	SVOC	Sediment	2	0	0	2	100.00%
2-Chlorophenol	SVOC	Sediment	2	0	0	2	100.00%
2-Methylnaphthalene	SVOC	Sediment	2	2	0	2	100.00%
2-Methylphenol	SVOC	Sediment	2	0	0	2	100.00%
2-Nitroaniline	SVOC	Sediment	2	0	0	2	100.00%
3&4-Methylphenol(m&p Cresol)	SVOC	Sediment	2	1	0	2	100.00%
3,3'-Dichlorobenzidine	SVOC	Sediment	2	0	0	2	100.00%
4-Chloroaniline	SVOC	Sediment	2	0	0	2	100.00%
4-Nitroaniline	SVOC	Sediment	2	0	0	2	100.00%
Acenaphthene	SVOC	Sediment	2	2	0	2	100.00%
Acenaphthylene	SVOC	Sediment	2	2	0	2	100.00%
Acetophenone	SVOC	Sediment	2	0	0	2	100.00%
Anthracene	SVOC	Sediment	2	2	0	2	100.00%
Benz[a]anthracene	SVOC	Sediment	2	2	0	2	100.00%
Benzaldehyde	SVOC	Sediment	2	1	0	2	100.00%
Benzo[a]pyrene	SVOC	Sediment	2	2	0	2	100.00%
Benzo[b]fluoranthene	SVOC	Sediment	2	2	0	2	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
Benzo[g,h,i]perylene	SVOC	Sediment	2	2	0	2	100.00%
Benzo[k]fluoranthene	SVOC	Sediment	2	2	0	2	100.00%
bis(2-chloroethoxy)methane	SVOC	Sediment	2	0	0	2	100.00%
bis(2-Chloroethyl)ether	SVOC	Sediment	2	0	0	2	100.00%
bis(2-Chloroisopropyl)ether	SVOC	Sediment	2	0	0	2	100.00%
bis(2-Ethylhexyl)phthalate	SVOC	Sediment	2	0	0	2	100.00%
Caprolactam	SVOC	Sediment	2	0	0	2	100.00%
Carbazole	SVOC	Sediment	2	0	0	2	100.00%
Chrysene	SVOC	Sediment	2	2	0	2	100.00%
Dibenz[a,h]anthracene	SVOC	Sediment	2	2	0	2	100.00%
Diethylphthalate	SVOC	Sediment	2	0	0	2	100.00%
Di-n-butylphthalate	SVOC	Sediment	2	0	0	2	100.00%
Di-n-ocytlphthalate	SVOC	Sediment	2	0	0	2	100.00%
Fluoranthene	SVOC	Sediment	2	2	0	2	100.00%
Fluorene	SVOC	Sediment	2	2	0	2	100.00%
Hexachlorobenzene	SVOC	Sediment	2	0	0	2	100.00%
Hexachlorobutadiene	SVOC	Sediment	2	0	0	2	100.00%
Hexachlorocyclopentadiene	SVOC	Sediment	2	0	0	2	100.00%
Hexachloroethane	SVOC	Sediment	2	0	0	2	100.00%
Indeno[1,2,3-c,d]pyrene	SVOC	Sediment	2	2	0	2	100.00%
Isophorone	SVOC	Sediment	2	0	0	2	100.00%
Naphthalene	SVOC	Sediment	2	2	0	2	100.00%
Nitrobenzene	SVOC	Sediment	2	0	0	2	100.00%
N-Nitroso-di-n-propylamine	SVOC	Sediment	2	0	0	2	100.00%
N-Nitrosodiphenylamine	SVOC	Sediment	2	0	0	2	100.00%
Pentachlorophenol	SVOC	Sediment	2	0	0	2	100.00%
Phenanthrene	SVOC	Sediment	2	2	0	2	100.00%
Phenol	SVOC	Sediment	2	0	0	2	100.00%
Pyrene	SVOC	Sediment	2	2	0	2	100.00%
Diesel Range Organics	TPH	Sediment	2	2	0	2	100.00%
Gasoline Range Organics	TPH	Sediment	2	0	0	2	100.00%
Oil & Grease	TPH	Sediment	2	2	0	2	100.00%
1,1,1-Trichloroethane	VOC	Sediment	2	0	0	2	100.00%
1,1,2,2-Tetrachloroethane	VOC	Sediment	2	0	0	2	100.00%
1,1,2-Trichloro-1,2,2-Trifluoroethane	VOC	Sediment	2	0	0	2	100.00%
1,1,2-Trichloroethane	VOC	Sediment	2	0	0	2	100.00%
1,1-Dichloroethane	VOC	Sediment	2	0	0	2	100.00%
1,1-Dichloroethene	VOC	Sediment	2	0	0	2	100.00%
1,2,3-Trichlorobenzene	VOC	Sediment	2	0	0	2	100.00%
1,2,4-Trichlorobenzene	VOC	Sediment	2	0	0	2	100.00%
1,2-Dibromo-3-chloropropane	VOC	Sediment	2	0	0	2	100.00%
1,2-Dibromoethane	VOC	Sediment	2	0	0	2	100.00%
1,2-Dichlorobenzene	VOC	Sediment	2	0	0	2	100.00%
1,2-Dichloroethane	VOC	Sediment	2	0	0	2	100.00%
1,2-Dichloroethene (Total)	VOC	Sediment	2	0	0	2	100.00%
1,2-Dichloropropane	VOC	Sediment	2	0	0	2	100.00%
1,3-Dichlorobenzene	VOC	Sediment	2	0	0	2	100.00%
1,4-Dichlorobenzene	VOC	Sediment	2	0	0	2	100.00%
2-Butanone (MEK)	VOC	Sediment	2	0	0	2	100.00%
2-Hexanone	VOC	Sediment	2	0	0	2	100.00%
4-Methyl-2-pentanone (MIBK)	VOC	Sediment	2	0	0	2	100.00%
Acetone	VOC	Sediment	2	2	0	2	100.00%
Benzene	VOC	Sediment	2	0	0	2	100.00%
Bromodichloromethane	VOC	Sediment	2	0	0	2	100.00%
Bromoform	VOC	Sediment	2	0	0	2	100.00%
Bromomethane	VOC	Sediment	2	0	0	2	100.00%
Carbon disulfide	VOC	Sediment	2	0	0	2	100.00%
Carbon tetrachloride	VOC	Sediment	2	0	0	2	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
Chlorobenzene	VOC	Sediment	2	0	0	2	100.00%
Chloroethane	VOC	Sediment	2	0	0	2	100.00%
Chloroform	VOC	Sediment	2	0	0	2	100.00%
Chloromethane	VOC	Sediment	2	0	0	2	100.00%
cis-1,2-Dichloroethene	VOC	Sediment	2	0	0	2	100.00%
cis-1,3-Dichloropropene	VOC	Sediment	2	0	0	2	100.00%
Cyclohexane	VOC	Sediment	2	0	0	2	100.00%
Dibromochloromethane	VOC	Sediment	2	0	0	2	100.00%
Dichlorodifluoromethane	VOC	Sediment	2	0	0	2	100.00%
Ethylbenzene	VOC	Sediment	2	0	0	2	100.00%
Isopropylbenzene	VOC	Sediment	2	0	0	2	100.00%
Methyl Acetate	VOC	Sediment	2	0	0	2	100.00%
Methyl tert-butyl ether (MTBE)	VOC	Sediment	2	0	0	2	100.00%
Methylene Chloride	VOC	Sediment	2	0	0	2	100.00%
Styrene	VOC	Sediment	2	0	0	2	100.00%
Tetrachloroethene	VOC	Sediment	2	0	0	2	100.00%
Toluene	VOC	Sediment	2	0	0	2	100.00%
trans-1,2-Dichloroethene	VOC	Sediment	2	0	0	2	100.00%
trans-1,3-Dichloropropene	VOC	Sediment	2	0	0	2	100.00%
Trichloroethene	VOC	Sediment	2	0	0	2	100.00%
Trichlorofluoromethane	VOC	Sediment	2	0	0	2	100.00%
Vinyl chloride	VOC	Sediment	2	0	0	2	100.00%
Xylenes	VOC	Sediment	2	0	0	2	100.00%
1,4-Dioxane	VOC/SVOC	Sediment	2	0	2	0	0.00%
Cyanide	CN	Soil	73	36	0	73	100.00%
Aluminum	Metal	Soil	73	73	0	73	100.00%
Antimony	Metal	Soil	73	1	0	73	100.00%
Arsenic	Metal	Soil	77	69	0	77	100.00%
Barium	Metal	Soil	73	73	0	73	100.00%
Beryllium	Metal	Soil	73	72	0	73	100.00%
Cadmium	Metal	Soil	73	13	0	73	100.00%
Chromium	Metal	Soil	73	73	0	73	100.00%
Chromium VI	Metal	Soil	73	8	17	56	76.71%
Cobalt	Metal	Soil	73	72	0	73	100.00%
Copper	Metal	Soil	73	73	0	73	100.00%
Iron	Metal	Soil	73	73	0	73	100.00%
Lead	Metal	Soil	73	73	0	73	100.00%
Manganese	Metal	Soil	73	73	0	73	100.00%
Mercury	Metal	Soil	73	53	0	73	100.00%
Nickel	Metal	Soil	73	73	0	73	100.00%
Selenium	Metal	Soil	73	4	0	73	100.00%
Silver	Metal	Soil	73	1	0	73	100.00%
Thallium	Metal	Soil	73	0	0	73	100.00%
Vanadium	Metal	Soil	73	73	0	73	100.00%
Zinc	Metal	Soil	73	73	0	73	100.00%
Aroclor 1016	PCB	Soil	28	0	0	28	100.00%
Aroclor 1221	PCB	Soil	28	0	0	28	100.00%
Aroclor 1232	PCB	Soil	28	0	0	28	100.00%
Aroclor 1242	PCB	Soil	28	0	0	28	100.00%
Aroclor 1248	PCB	Soil	28	0	0	28	100.00%
Aroclor 1254	PCB	Soil	28	1	0	28	100.00%
Aroclor 1260	PCB	Soil	28	1	0	28	100.00%
Aroclor 1262	PCB	Soil	28	0	0	28	100.00%
Aroclor 1268	PCB	Soil	28	3	0	28	100.00%
PCBs (total)	PCB	Soil	28	2	0	28	100.00%
4,4'-DDD	Pesticides	Soil	39	1	0	39	100.00%
4,4'-DDE	Pesticides	Soil	39	2	0	39	100.00%
4,4'-DDT	Pesticides	Soil	39	4	0	39	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
Aldrin	Pesticides	Soil	39	1	0	39	100.00%
alpha-BHC	Pesticides	Soil	39	0	0	39	100.00%
alpha-Chlordane	Pesticides	Soil	39	9	0	39	100.00%
beta-BHC	Pesticides	Soil	39	2	0	39	100.00%
delta-BHC	Pesticides	Soil	39	0	0	39	100.00%
Dieldrin	Pesticides	Soil	39	4	0	39	100.00%
Endosulfan I	Pesticides	Soil	39	6	0	39	100.00%
Endosulfan II	Pesticides	Soil	39	7	0	39	100.00%
Endosulfan sulfate	Pesticides	Soil	39	4	0	39	100.00%
Endrin	Pesticides	Soil	39	7	0	39	100.00%
Endrin aldehyde	Pesticides	Soil	39	6	0	39	100.00%
Endrine ketone	Pesticides	Soil	39	7	0	39	100.00%
gamma-BHC (Lindane)	Pesticides	Soil	39	4	0	39	100.00%
gamma-Chlordane	Pesticides	Soil	39	8	0	39	100.00%
Heptachlor	Pesticides	Soil	39	5	0	39	100.00%
Heptachlor epoxide	Pesticides	Soil	39	3	0	39	100.00%
Methoxychlor	Pesticides	Soil	39	5	0	39	100.00%
Toxaphene	Pesticides	Soil	39	0	0	39	100.00%
1,1-Biphenyl	SVOC	Soil	73	1	0	73	100.00%
1,2,4,5-Tetrachlorobenzene	SVOC	Soil	73	0	0	73	100.00%
2,3,4,6-Tetrachlorophenol	SVOC	Soil	73	0	1	72	98.63%
2,4,5-Trichlorophenol	SVOC	Soil	73	0	1	72	98.63%
2,4,6-Trichlorophenol	SVOC	Soil	73	0	1	72	98.63%
2,4-Dichlorophenol	SVOC	Soil	73	0	1	72	98.63%
2,4-Dimethylphenol	SVOC	Soil	73	0	1	72	98.63%
2,4-Dinitrophenol	SVOC	Soil	73	0	1	72	98.63%
2,4-Dinitrotoluene	SVOC	Soil	73	0	0	73	100.00%
2,6-Dinitrotoluene	SVOC	Soil	73	0	0	73	100.00%
2-Chloronaphthalene	SVOC	Soil	73	0	0	73	100.00%
2-Chlorophenol	SVOC	Soil	73	0	1	72	98.63%
2-Methylnaphthalene	SVOC	Soil	73	43	0	73	100.00%
2-Methylphenol	SVOC	Soil	73	0	1	72	98.63%
2-Nitroaniline	SVOC	Soil	73	0	0	73	100.00%
3&4-Methylphenol(m&p Cresol)	SVOC	Soil	73	0	1	72	98.63%
3,3'-Dichlorobenzidine	SVOC	Soil	73	0	0	73	100.00%
4-Chloroaniline	SVOC	Soil	73	0	0	73	100.00%
4-Nitroaniline	SVOC	Soil	73	0	0	73	100.00%
Acenaphthene	SVOC	Soil	73	36	0	73	100.00%
Acenaphthylene	SVOC	Soil	73	42	0	73	100.00%
Acetophenone	SVOC	Soil	73	0	0	73	100.00%
Anthracene	SVOC	Soil	73	46	0	73	100.00%
Benz[a]anthracene	SVOC	Soil	73	52	0	73	100.00%
Benzaldehyde	SVOC	Soil	73	4	6	67	91.78%
Benzo[a]pyrene	SVOC	Soil	74	52	0	74	100.00%
Benzo[b]fluoranthene	SVOC	Soil	73	51	0	73	100.00%
Benzo[g,h,i]perylene	SVOC	Soil	73	50	0	73	100.00%
Benzo[k]fluoranthene	SVOC	Soil	73	50	0	73	100.00%
bis(2-chloroethoxy)methane	SVOC	Soil	73	0	0	73	100.00%
bis(2-Chloroethyl)ether	SVOC	Soil	73	0	0	73	100.00%
bis(2-Chloroisopropyl)ether	SVOC	Soil	73	0	0	73	100.00%
bis(2-Ethylhexyl)phthalate	SVOC	Soil	73	4	0	73	100.00%
Caprolactam	SVOC	Soil	73	4	0	73	100.00%
Carbazole	SVOC	Soil	73	5	0	73	100.00%
Chrysene	SVOC	Soil	73	52	0	73	100.00%
Dibenz[a,h]anthracene	SVOC	Soil	73	42	0	73	100.00%
Diethylphthalate	SVOC	Soil	73	0	0	73	100.00%
Di-n-butylphthalate	SVOC	Soil	73	1	0	73	100.00%
Di-n-ocytlphthalate	SVOC	Soil	73	1	0	73	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
Fluoranthene	SVOC	Soil	73	54	0	73	100.00%
Fluorene	SVOC	Soil	73	37	0	73	100.00%
Hexachlorobenzene	SVOC	Soil	73	0	0	73	100.00%
Hexachlorobutadiene	SVOC	Soil	73	0	0	73	100.00%
Hexachlorocyclopentadiene	SVOC	Soil	73	0	0	73	100.00%
Hexachloroethane	SVOC	Soil	73	1	0	73	100.00%
Indeno[1,2,3-c,d]pyrene	SVOC	Soil	73	50	0	73	100.00%
Isophorone	SVOC	Soil	73	0	0	73	100.00%
Naphthalene	SVOC	Soil	73	50	0	73	100.00%
Nitrobenzene	SVOC	Soil	73	0	0	73	100.00%
N-Nitroso-di-n-propylamine	SVOC	Soil	73	0	0	73	100.00%
N-Nitrosodiphenylamine	SVOC	Soil	73	0	0	73	100.00%
Pentachlorophenol	SVOC	Soil	73	0	1	72	98.63%
Phenanthrene	SVOC	Soil	73	58	0	73	100.00%
Phenol	SVOC	Soil	73	0	1	72	98.63%
Pyrene	SVOC	Soil	73	54	0	73	100.00%
Diesel Range Organics	TPH	Soil	73	54	0	73	100.00%
Gasoline Range Organics	TPH	Soil	73	1	0	73	100.00%
Oil & Grease	TPH	Soil	73	62	0	73	100.00%
1,1,1-Trichloroethane	VOC	Soil	6	0	0	6	100.00%
1,1,2,2-Tetrachloroethane	VOC	Soil	6	0	0	6	100.00%
1,1,2-Trichloro-1,2,2-Trifluoroethane	VOC	Soil	6	0	0	6	100.00%
1,1,2-Trichloroethane	VOC	Soil	6	0	0	6	100.00%
1,1-Dichloroethane	VOC	Soil	6	0	0	6	100.00%
1,1-Dichloroethene	VOC	Soil	6	0	0	6	100.00%
1,2,3-Trichlorobenzene	VOC	Soil	6	0	0	6	100.00%
1,2,4-Trichlorobenzene	VOC	Soil	6	0	0	6	100.00%
1,2-Dibromo-3-chloropropane	VOC	Soil	6	0	0	6	100.00%
1,2-Dibromoethane	VOC	Soil	6	0	0	6	100.00%
1,2-Dichlorobenzene	VOC	Soil	6	1	0	6	100.00%
1,2-Dichloroethane	VOC	Soil	6	0	0	6	100.00%
1,2-Dichloroethene (Total)	VOC	Soil	6	0	0	6	100.00%
1,2-Dichloropropane	VOC	Soil	6	0	0	6	100.00%
1,3-Dichlorobenzene	VOC	Soil	6	0	0	6	100.00%
1,4-Dichlorobenzene	VOC	Soil	6	0	0	6	100.00%
2-Butanone (MEK)	VOC	Soil	6	1	0	6	100.00%
2-Hexanone	VOC	Soil	6	0	0	6	100.00%
4-Methyl-2-pentanone (MIBK)	VOC	Soil	6	0	0	6	100.00%
Acetone	VOC	Soil	6	4	0	6	100.00%
Benzene	VOC	Soil	6	0	0	6	100.00%
Bromodichloromethane	VOC	Soil	6	0	0	6	100.00%
Bromoform	VOC	Soil	6	0	0	6	100.00%
Bromomethane	VOC	Soil	6	0	0	6	100.00%
Carbon disulfide	VOC	Soil	6	0	0	6	100.00%
Carbon tetrachloride	VOC	Soil	6	0	0	6	100.00%
Chlorobenzene	VOC	Soil	6	0	0	6	100.00%
Chloroethane	VOC	Soil	6	0	0	6	100.00%
Chloroform	VOC	Soil	6	0	0	6	100.00%
Chloromethane	VOC	Soil	6	0	0	6	100.00%
cis-1,2-Dichloroethene	VOC	Soil	6	0	0	6	100.00%
cis-1,3-Dichloropropene	VOC	Soil	6	0	0	6	100.00%
Cyclohexane	VOC	Soil	6	0	0	6	100.00%
Dibromochloromethane	VOC	Soil	6	0	0	6	100.00%
Dichlorodifluoromethane	VOC	Soil	6	0	0	6	100.00%
Ethylbenzene	VOC	Soil	6	1	0	6	100.00%
Isopropylbenzene	VOC	Soil	6	0	0	6	100.00%
Methyl Acetate	VOC	Soil	6	0	0	6	100.00%
Methyl tert-butyl ether (MTBE)	VOC	Soil	6	1	0	6	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
Methylene Chloride	VOC	Soil	6	0	0	6	100.00%
Styrene	VOC	Soil	6	0	0	6	100.00%
Tetrachloroethene	VOC	Soil	6	0	0	6	100.00%
Toluene	VOC	Soil	6	1	0	6	100.00%
trans-1,2-Dichloroethene	VOC	Soil	6	0	0	6	100.00%
trans-1,3-Dichloropropene	VOC	Soil	6	0	0	6	100.00%
Trichloroethene	VOC	Soil	6	0	0	6	100.00%
Trichlorofluoromethane	VOC	Soil	6	0	0	6	100.00%
Vinyl chloride	VOC	Soil	6	0	0	6	100.00%
Xylenes	VOC	Soil	6	1	0	6	100.00%
1,4-Dioxane	VOC/SVOC	Soil	6	0	6	0	0.00%
Total Cyanide	CN	Water	3	1	0	3	100.00%
Aluminum	Metal	Water	3	3	0	3	100.00%
Antimony	Metal	Water	3	0	0	3	100.00%
Arsenic	Metal	Water	3	1	0	3	100.00%
Barium	Metal	Water	3	3	0	3	100.00%
Beryllium	Metal	Water	3	3	0	3	100.00%
Cadmium	Metal	Water	3	3	0	3	100.00%
Chromium	Metal	Water	3	3	0	3	100.00%
Chromium VI	Metal	Water	3	0	0	3	100.00%
Cobalt	Metal	Water	3	3	0	3	100.00%
Copper	Metal	Water	3	2	0	3	100.00%
Iron	Metal	Water	3	3	0	3	100.00%
Lead	Metal	Water	3	2	0	3	100.00%
Manganese	Metal	Water	3	3	0	3	100.00%
Mercury	Metal	Water	3	0	0	3	100.00%
Nickel	Metal	Water	3	3	0	3	100.00%
Selenium	Metal	Water	3	0	0	3	100.00%
Silver	Metal	Water	3	0	0	3	100.00%
Thallium	Metal	Water	3	0	0	3	100.00%
Vanadium	Metal	Water	3	1	0	3	100.00%
Zinc	Metal	Water	3	3	0	3	100.00%
1,1-Biphenyl	SVOC	Water	3	0	0	3	100.00%
1,2,4,5-Tetrachlorobenzene	SVOC	Water	3	0	0	3	100.00%
2,3,4,6-Tetrachlorophenol	SVOC	Water	3	0	0	3	100.00%
2,4,5-Trichlorophenol	SVOC	Water	3	0	0	3	100.00%
2,4,6-Trichlorophenol	SVOC	Water	3	0	0	3	100.00%
2,4-Dichlorophenol	SVOC	Water	3	0	0	3	100.00%
2,4-Dimethylphenol	SVOC	Water	3	0	0	3	100.00%
2,4-Dinitrophenol	SVOC	Water	3	0	0	3	100.00%
2,4-Dinitrotoluene	SVOC	Water	3	0	0	3	100.00%
2,6-Dinitrotoluene	SVOC	Water	3	0	0	3	100.00%
2-Chloronaphthalene	SVOC	Water	3	0	0	3	100.00%
2-Chlorophenol	SVOC	Water	3	0	0	3	100.00%
2-Methylnaphthalene	SVOC	Water	6	1	0	6	100.00%
2-Methylphenol	SVOC	Water	3	0	0	3	100.00%
2-Nitroaniline	SVOC	Water	3	0	0	3	100.00%
2-Nitrophenol	SVOC	Water	3	0	0	3	100.00%
3,3'-Dichlorobenzidine	SVOC	Water	3	0	0	3	100.00%
4,6-Dinitro-2-methylphenol	SVOC	Water	3	0	0	3	100.00%
4-Bromophenyl phenyl ether	SVOC	Water	3	0	0	3	100.00%
4-Chloro-3-methylphenol	SVOC	Water	3	0	0	3	100.00%
4-Chloroaniline	SVOC	Water	3	0	0	3	100.00%
4-Chlorophenyl phenyl ether	SVOC	Water	3	0	0	3	100.00%
4-Nitroaniline	SVOC	Water	3	0	0	3	100.00%
4-Nitrophenol	SVOC	Water	3	0	0	3	100.00%
Acenaphthene	SVOC	Water	6	0	0	6	100.00%
Acenaphthylene	SVOC	Water	6	0	0	6	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
Acetophenone	SVOC	Water	3	0	0	3	100.00%
Anthracene	SVOC	Water	6	0	0	6	100.00%
Benz[a]anthracene	SVOC	Water	6	1	0	6	100.00%
Benzaldehyde	SVOC	Water	3	0	0	3	100.00%
Benzo[a]pyrene	SVOC	Water	6	1	0	6	100.00%
Benzo[b]fluoranthene	SVOC	Water	6	1	0	6	100.00%
Benzo[g,h,i]perylene	SVOC	Water	6	1	0	6	100.00%
Benzo[k]fluoranthene	SVOC	Water	6	1	0	6	100.00%
bis(2-chloroethoxy)methane	SVOC	Water	3	0	0	3	100.00%
bis(2-Chloroethyl)ether	SVOC	Water	3	0	0	3	100.00%
bis(2-Chloroisopropyl)ether	SVOC	Water	3	0	0	3	100.00%
bis(2-Ethylhexyl)phthalate	SVOC	Water	3	0	0	3	100.00%
Butylbenzylphthalate	SVOC	Water	3	0	0	3	100.00%
Caprolactam	SVOC	Water	3	0	0	3	100.00%
Carbazole	SVOC	Water	3	0	0	3	100.00%
Chrysene	SVOC	Water	6	1	0	6	100.00%
Dibenz[a,h]anthracene	SVOC	Water	6	0	0	6	100.00%
Diethylphthalate	SVOC	Water	3	1	0	3	100.00%
Dimethylphthalate	SVOC	Water	3	1	0	3	100.00%
Di-n-butylphthalate	SVOC	Water	3	2	0	3	100.00%
Di-n-ocytlphthalate	SVOC	Water	3	0	0	3	100.00%
Fluoranthene	SVOC	Water	6	2	0	6	100.00%
Fluorene	SVOC	Water	6	0	0	6	100.00%
Hexachlorobenzene	SVOC	Water	3	0	0	3	100.00%
Hexachlorobutadiene	SVOC	Water	3	0	0	3	100.00%
Hexachlorocyclopentadiene	SVOC	Water	3	0	0	3	100.00%
Hexachloroethane	SVOC	Water	3	0	0	3	100.00%
Indeno[1,2,3-c,d]pyrene	SVOC	Water	6	1	0	6	100.00%
Isophorone	SVOC	Water	3	0	0	3	100.00%
Naphthalene	SVOC	Water	6	0	0	6	100.00%
Nitrobenzene	SVOC	Water	3	0	0	3	100.00%
N-Nitroso-di-n-propylamine	SVOC	Water	3	0	0	3	100.00%
N-Nitrosodiphenylamine	SVOC	Water	3	0	0	3	100.00%
Pentachlorophenol	SVOC	Water	3	0	0	3	100.00%
Phenanthrene	SVOC	Water	6	3	0	6	100.00%
Phenol	SVOC	Water	3	0	0	3	100.00%
Pyrene	SVOC	Water	6	1	0	6	100.00%
Diesel Range Organics	TPH	Water	3	2	0	3	100.00%
Gasoline Range Organics	TPH	Water	3	0	0	3	100.00%
Oil & Grease	TPH	Water	3	0	0	3	100.00%
1,1,1-Trichloroethane	VOC	Water	3	0	0	3	100.00%
1,1,2,2-Tetrachloroethane	VOC	Water	3	0	0	3	100.00%
1,1,2-Trichloro-1,2,2-Trifluoroethane	VOC	Water	3	0	0	3	100.00%
1,1,2-Trichloroethane	VOC	Water	3	0	0	3	100.00%
1,1-Dichloroethane	VOC	Water	3	0	0	3	100.00%
1,1-Dichloroethene	VOC	Water	3	0	0	3	100.00%
1,2,3-Trichlorobenzene	VOC	Water	3	0	0	3	100.00%
1,2,4-Trichlorobenzene	VOC	Water	3	0	0	3	100.00%
1,2-Dibromo-3-chloropropane	VOC	Water	3	0	0	3	100.00%
1,2-Dibromoethane	VOC	Water	3	0	0	3	100.00%
1,2-Dichlorobenzene	VOC	Water	3	0	0	3	100.00%
1,2-Dichloroethane	VOC	Water	3	0	0	3	100.00%
1,2-Dichloroethene (Total)	VOC	Water	3	0	0	3	100.00%
1,2-Dichloropropane	VOC	Water	3	0	0	3	100.00%
1,3-Dichlorobenzene	VOC	Water	3	0	0	3	100.00%
1,4-Dichlorobenzene	VOC	Water	3	0	0	3	100.00%
2-Butanone (MEK)	VOC	Water	3	0	0	3	100.00%
2-Hexanone	VOC	Water	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
4-Methyl-2-pentanone (MIBK)	VOC	Water	3	0	0	3	100.00%
Acetone	VOC	Water	3	0	0	3	100.00%
Benzene	VOC	Water	3	0	0	3	100.00%
Bromodichloromethane	VOC	Water	3	0	0	3	100.00%
Bromoform	VOC	Water	3	0	0	3	100.00%
Bromomethane	VOC	Water	3	0	0	3	100.00%
Carbon disulfide	VOC	Water	3	0	0	3	100.00%
Carbon tetrachloride	VOC	Water	3	0	0	3	100.00%
Chlorobenzene	VOC	Water	3	0	0	3	100.00%
Chloroethane	VOC	Water	3	0	0	3	100.00%
Chloroform	VOC	Water	3	0	0	3	100.00%
Chloromethane	VOC	Water	3	0	0	3	100.00%
cis-1,2-Dichloroethene	VOC	Water	3	0	0	3	100.00%
cis-1,3-Dichloropropene	VOC	Water	3	0	0	3	100.00%
Cyclohexane	VOC	Water	3	0	0	3	100.00%
Dibromochloromethane	VOC	Water	3	0	0	3	100.00%
Dichlorodifluoromethane	VOC	Water	3	0	0	3	100.00%
Ethylbenzene	VOC	Water	3	0	0	3	100.00%
Isopropylbenzene	VOC	Water	3	0	0	3	100.00%
Methyl Acetate	VOC	Water	3	0	0	3	100.00%
Methyl tert-butyl ether (MTBE)	VOC	Water	3	1	0	3	100.00%
Methylene Chloride	VOC	Water	3	0	0	3	100.00%
Styrene	VOC	Water	3	0	0	3	100.00%
Tetrachloroethene	VOC	Water	3	0	0	3	100.00%
Toluene	VOC	Water	3	0	0	3	100.00%
trans-1,2-Dichloroethene	VOC	Water	3	0	0	3	100.00%
trans-1,3-Dichloropropene	VOC	Water	3	0	0	3	100.00%
Trichloroethene	VOC	Water	3	0	0	3	100.00%
Trichlorofluoromethane	VOC	Water	3	0	0	3	100.00%
Vinyl chloride	VOC	Water	3	0	0	3	100.00%
Xylenes	VOC	Water	3	0	0	3	100.00%
1,4-Dioxane	VOC/SVOC	Water	6	1	0	6	100.00%

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